

WEST Search History

DATE: Thursday, September 02, 2004

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L64	L63 and ("1/4" or ".lamda./4" or "0.25")	8
<input type="checkbox"/>	L63	L62 and (socket or plug)	89
<input type="checkbox"/>	L62	L61 and (electric\$4)	232
<input type="checkbox"/>	L61	L60 and ((remov\$4 or detach\$4 or insert\$4 or detach\$4) with (wand or probe or rod or sensor or coil or instrument or catheter or device))	252
<input type="checkbox"/>	L60	L59 and (remov\$4 or detach\$4 or insert\$4 or detach\$4)	481
<input type="checkbox"/>	L59	L58 and (wand or probe or rod or sensor)	499
<input type="checkbox"/>	L58	L57 and (clip or jumper or contact or spring)	565
<input type="checkbox"/>	L57	L56 and (wave or wavelength or wave-length or "wave length" or ".lamda.")	760
<input type="checkbox"/>	L56	L55 and (NMR or MRI or (magnetic adj resonance))	1442
<input type="checkbox"/>	L55	(wireless or wire-less or "wire less")	206092
<input type="checkbox"/>	L54	L53 and ((wand or probe or rod or tube) with (capacit\$4))	1
<input type="checkbox"/>	L53	L52 and ((wand or probe or rod or tube) with (coil))	40
<input type="checkbox"/>	L52	L51 and (wand or probe or rod or tube)	210
<input type="checkbox"/>	L51	L50 and ((slid\$4 or movable or adjustable) with collar)	234
<input type="checkbox"/>	L50	L25 and (collar)	1720
<input type="checkbox"/>	L49	L48 and (collar)	0
<input type="checkbox"/>	L48	L47 and ((wand or probe or rod) with capacit\$4)	25
<input type="checkbox"/>	L47	L26 and ((wand or probe or rod) with coil)	88
<input type="checkbox"/>	L46	L25 and (control with wand)	112
<input type="checkbox"/>	L45	5390673	26
<input type="checkbox"/>	L44	L43 and L25	16
<input type="checkbox"/>	L43	kikinis.in.	528
<input type="checkbox"/>	L42	L41 and L35	7
<input type="checkbox"/>	L41	L38 or L36	14121
<input type="checkbox"/>	L40	L39 and L35	0
<input type="checkbox"/>	L39	L38 and L36	1029
<input type="checkbox"/>	L38	(600/410 600/411 600/412 600/413 600/414 600/415 600/416 600/417 600/418 600/419 600/420 600/421 600/422 600/423 600/424 600/425 600/426 600/427 600/428 600/429 600/430 600/431 600/432 600/433 600/434 600/435 600/436 600/437 600/438).ccls.	7405

<input type="checkbox"/>	L37	(600/).ccls.	0
<input type="checkbox"/>	L36	(324/300 324/301 324/302 324/303 324/304 324/305 324/306 324/307 324/308 324/309 324/310 324/311 324/312 324/313 324/314 324/315 324/316 324/317 324/318 324/319 324/320 324/321 324/322).ccls.	7745
<input type="checkbox"/>	L35	L34 and (adjust\$4 or control\$4 or slid\$4 or fasten\$4 or secur\$4 or mount\$3)	96
<input type="checkbox"/>	L34	L33 and (socket or plug)	96
<input type="checkbox"/>	L33	L32 and (capacit\$4)	203
<input type="checkbox"/>	L32	L31 and (wave or wavelength or wave-length or "wave length" or ".lamda.")	281
<input type="checkbox"/>	L31	L30 and (electric\$4)	425
<input type="checkbox"/>	L30	L29 and (clip or jumper or contact)	773
<input type="checkbox"/>	L29	L27 and (remov\$4 or detatch\$4 or insert\$4 or detach\$4)	1406
<input type="checkbox"/>	L28	L27 and (remov\$4 or detatch\$4 or intert\$4 or detach\$4)	1366
<input type="checkbox"/>	L27	L26 and (wand or probe or rod)	1472
<input type="checkbox"/>	L26	L25 and ("1/4" or ".lamda./4")	6450
<input type="checkbox"/>	L25	(NMR or MRI or (magnetic adj resonance))	186343
<input type="checkbox"/>	L24	L23 and (socket or plug)	5
<input type="checkbox"/>	L23	L22 and (tube or sleeve or slid\$4 or collar or sheath)	8
<input type="checkbox"/>	L22	L21 and (electric\$4)	8
<input type="checkbox"/>	L21	L20 and (frequency or rf)	8
<input type="checkbox"/>	L20	L15 and (contact or clip or spring or jumper)	9
<input type="checkbox"/>	L19	L18 and (capacit\$4)	11
<input type="checkbox"/>	L18	(4682125 5057106 5178159 5324311 5445155 5699801 5792055 5797848 5928145 6004269 6031375 6263229 6408202 20010056232)! [pn]	28
<input type="checkbox"/>	L17	WO 200240088 A2	1
<input type="checkbox"/>	L16	6714809	3
<input type="checkbox"/>	L15	L14 and (capacit\$4)	15
<input type="checkbox"/>	L14	((wireless or wire-less or "wire less") with ((magnetic adj resonance) or MRI or NMR) with (probe or antenna or wand or device))	31
<input type="checkbox"/>	L13	L12 and ((magnetic adj resonance) or MRI or NMR)	0
<input type="checkbox"/>	L12	L11 and (wand)	12
<input type="checkbox"/>	L11	(probe capacit\$4)	877
<input type="checkbox"/>	L10	(wand capacit\$4)	0
<input type="checkbox"/>	L9	L5 and (capacit\$4)	0
<input type="checkbox"/>	L8	L7 and (capacit\$4)	2
<input type="checkbox"/>	L7	L6 and ((magnetic adj resonance) or MRI or NMR)	22
<input type="checkbox"/>	L6	Ferre.in.	440
<input type="checkbox"/>	L5	(5676673 5690113 5715822 5730129 6129668 6263230)! [pn]	12
<input type="checkbox"/>	L4	L3 and (position\$4 or orientat\$4 or locat\$4)	185
<input type="checkbox"/>	L3	fetzner	211

- ☐ L2 L1 and ((magnetic adj resonance) or MRI or NMR) 59
- ☐ L1 fuderer.in. 178

END OF SEARCH HISTORY

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 6714809 B2, WO 200240088 A2, AU 200239278 A, US 20020161421 A1

Using default format because multiple data bases are involved.

L17: Entry 1 of 1

File: DWPI

Mar 30, 2004

DERWENT-ACC-NO: 2002-435941

DERWENT-WEEK: 200423

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Connector for receiving guide-wire for electrical connection to external source such as magnetic resonance imaging scanner during magnetic resonance imaging

INVENTOR: LEE, C; MCNAMARA, C ; VIOHL, I ; MCNAMARA, C E

PRIORITY-DATA: 2000US-252003P (November 20, 2000), 2001US-0990878 (November 20, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6714809 B2	March 30, 2004		000	A61B005/055
WO 200240088 A2	May 23, 2002	E	048	A61M025/00
AU 200239278 A	May 27, 2002		000	A61M025/00
US 20020161421 A1	October 31, 2002		000	A61N001/05

INT-CL (IPC): A61 B 5/055; A61 M 25/00; A61 N 1/05

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	WMC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
WO	1997067
WOES	128
WOS	3368
WOE	789
"200240088"	1
200240088S	0
A2	1046821

A2S	254
((WO ADJ "200240088") ADJ A2).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1
(WO 200240088 A2).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 20040054278 A1

Using default format because multiple data bases are involved.

L23: Entry 1 of 8

File: PGPB

Mar 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040054278

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040054278 A1

TITLE: Ingestible pill

PUBLICATION-DATE: March 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kimchy, Yoav	Haifa		IL	
Amrami, Roni	Yokneam		IL	
Bouskila, Yona	Maidenhead		GB	
Antebi, Udi	Kiryat Bialik		IL	
Sidorenko, Nick	Acre		IL	
Ben-David, Gal	Mitzpe Adi		IL	
Zilberstein, Yoel	Haifa		IL	

US-CL-CURRENT: 600/407

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 20030139661 A1

L23: Entry 2 of 8

File: PGPB

Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030139661

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030139661 A1

TITLE: Ingestible device

PUBLICATION-DATE: July 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kimchy, Yoav	Haifa		IL	

Amrami, Roni Yokneam IL
Bouskila, Yona Atlit IL

US-CL-CURRENT: 600/407

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 20020161421 A1

L23: Entry 3 of 8

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161421
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020161421 A1

TITLE: Connector and guidewire connectable thereto

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lee, Chris	Tewksbury	MA	US	
McNamara, Christine	Chelmsford	MA	US	
Viohl, Ingmar	Milwaukee	WI	US	

US-CL-CURRENT: 607/116; 600/585

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 4. Document ID: US 20020149369 A1

L23: Entry 4 of 8

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020149369
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020149369 A1

TITLE: Microfluidic device with multiple microcoil NMR detectors

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Peck, Tim L.	Mahomet	IL	US	
Olson, Dean	Champaign	IL	US	
Norcross, Jim	Champaign	IL	US	
Strand, David	Sherborn	MA	US	
Sweedler, Jonathan	Urbana	IL	US	

US-CL-CURRENT: 324/321; 324/306, 435/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 5. Document ID: US 20020040185 A1

L23: Entry 5 of 8

File: PGPB

Apr 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020040185

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020040185 A1

TITLE: Systems and methods for evaluating the urethra and the periurethral tissues

PUBLICATION-DATE: April 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Atalar, Ergin	Columbia	MD	US	
Quick, Harald	Essen-Werden	MD	DE	
Karmarkar, Parag	Elliott City		US	

US-CL-CURRENT: 600/423

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 6. Document ID: US 6714809 B2

L23: Entry 6 of 8

File: USPT

Mar 30, 2004

US-PAT-NO: 6714809

DOCUMENT-IDENTIFIER: US 6714809 B2

TITLE: Connector and guidewire connectable thereto

DATE-ISSUED: March 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Chris	Tewksbury	MA		
McNamara; Christine	Chelmsford	MA		
Viohl; Ingmar	Milwaukee	WI		

US-CL-CURRENT: 600/423, 439/578, 600/424, 600/585

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 7. Document ID: US 6320384 B1

L23: Entry 7 of 8

File: USPT

Nov 20, 2001

US-PAT-NO: 6320384
DOCUMENT-IDENTIFIER: US 6320384 B1

TITLE: Thermal buffering of cross-coils in high-power NMR decoupling

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty; David F.	Columbia	SC	29229-4339	
Entzminger, Jr.; George	Columbia	SC	29223	

US-CL-CURRENT: 324/321; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 8. Document ID: US 5466480 A

L23: Entry 8 of 8

File: USPT

Nov 14, 1995

US-PAT-NO: 5466480
DOCUMENT-IDENTIFIER: US 5466480 A

TITLE: Method for making an NMR coil

DATE-ISSUED: November 14, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zhou; Dawei	Gainesville	FL		
Mareci; Thomas	Gainesville	FL		
Burns; Michael	Mountain View	CA		
Ruby; Ward	San Jose	CA		

US-CL-CURRENT: 427/63; 427/124, 427/125, 427/250, 427/255.5, 427/259, 427/261,
427/269, 505/844

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
TUBE	2003071
TUBES	726554
SLEEVE	883606
SLEEVES	211576
COLLAR	424805

COLLARS	106906
SHEATH	170259
SHEATHS	23359
SLID\$4	0
SLID	360023
SLIDA	12831
(L22 AND (TUBE OR SLEEVE OR SLID\$4 OR COLLAR OR SHEATH)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	8

[There are more results than shown above. Click here to view the entire set.](#)

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 20020161421 A1

Using default format because multiple data bases are involved.

L24: Entry 1 of 5

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161421

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020161421 A1

TITLE: Connector and guidewire connectable thereto

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lee, Chris	Tewksbury	MA	US	
McNamara, Christine	Chelmsford	MA	US	
Viohl, Ingmar	Milwaukee	WI	US	

US-CL-CURRENT: 607/116; 600/585

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RULE	Draw De
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☐ 2. Document ID: US 20020149369 A1

L24: Entry 2 of 5

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020149369

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020149369 A1

TITLE: Microfluidic device with multiple microcoil NMR detectors

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Peck, Tim L.	Mahomet	IL	US	
Olson, Dean	Champaign	IL	US	
Norcross, Jim	Champaign	IL	US	
Strand, David	Sherborn	MA	US	
Sweedler, Jonathan	Urbana	IL	US	

US-CL-CURRENT: 324/321, 324/306, 435/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 3. Document ID: US 20020040185 A1

L24: Entry 3 of 5

File: PGPB

Apr 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020040185

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020040185 A1

TITLE: Systems and methods for evaluating the urethra and the periurethral tissues

PUBLICATION-DATE: April 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Atalar, Ergin	Columbia	MD	US	
Quick, Harald	Essen-Werden	MD	DE	
Karmarkar, Parag	Elliott City		US	

US-CL-CURRENT: 600/423

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 4. Document ID: US 6714809 B2

L24: Entry 4 of 5

File: USPT

Mar 30, 2004

US-PAT-NO: 6714809

DOCUMENT-IDENTIFIER: US 6714809 B2

TITLE: Connector and guidewire connectable thereto

DATE-ISSUED: March 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Chris	Tewksbury	MA		
McNamara; Christine	Chelmsford	MA		
Viohl; Ingmar	Milwaukee	WI		

US-CL-CURRENT: 600/423, 439/578, 600/424, 600/585

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 5. Document ID: US 6320384 B1

L24: Entry 5 of 5

File: USPT

Nov 20, 2001

US-PAT-NO: 6320384

DOCUMENT-IDENTIFIER: US 6320384 B1

TITLE: Thermal buffering of cross-coils in high-power NMR decoupling

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty; David F.	Columbia	SC	29229-4339	
Entzminger, Jr.; George	Columbia	SC	29223	

US-CL-CURRENT: 324/321; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Ds
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
SOCKET	435063
SOCKETS	146126
PLUG	652497
PLUGS	163164
(23 AND (SOCKET OR PLUG)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5
(L23 AND (SOCKET OR PLUG)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5

Display Format: [Previous Page](#)[Next Page](#)[Go to Doc#](#)

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 20040015079 A1

Using default format because multiple data bases are involved.

L42: Entry 1 of 7

File: PGPB

Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040015079

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040015079 A1

TITLE: Ultrasound probe with integrated electronics

PUBLICATION-DATE: January 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Berger, Noah	Framingham	MA	US	
Brodsky, Michael	Brookline	MA	US	
Chiang, Alice M.	Weston	MA	US	
LaForest, Mark	Acton	MA	US	
Wong, William	Milton	MA	US	
He, Xingbai	Andover	MA	US	
Chang, Peter P.	Burlington	MA	US	

US-CL-CURRENT: 600/437; 600/443, 600/464

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWC	Draw D
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☐ 2. Document ID: US 6714013 B2

L42: Entry 2 of 7

File: USPT

Mar 30, 2004

US-PAT-NO: 6714013

DOCUMENT-IDENTIFIER: US 6714013 B2

TITLE: Magnetic resonance imaging receiver/transmitter coils

DATE-ISSUED: March 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Misic; George J.	Allison Park	PA		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. De
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☐ 3. Document ID: US 6246898 B1

L42: Entry 3 of 7

File: USPT

Jun 12, 2001

US-PAT-NO: 6246898

DOCUMENT-IDENTIFIER: US 6246898 B1

TITLE: Method for carrying out a medical procedure using a three-dimensional tracking and imaging system

DATE-ISSUED: June 12, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vesely; Ivan	Cleveland Heights	OH		
Smith; Wayne	London			CA
Klein; George	London			CA
Burkhoff; Daniel	Tenafly	NJ		

US-CL-CURRENT: 600/424; 600/429, 600/439, 606/130

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. De
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☐ 4. Document ID: US 5982179 A

L42: Entry 4 of 7

File: USPT

Nov 9, 1999

US-PAT-NO: 5982179

DOCUMENT-IDENTIFIER: US 5982179 A

TITLE: NMR circuit-switch

DATE-ISSUED: November 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Munsell; Andrew W.	Tucson	AZ		
Rice; Robert G.	<u>Mountain</u> Veiw	CA		
Finnigan; James P.	Santa Clara	CA		

US-CL-CURRENT: 324/322; 370/281

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. De
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☐ 5. Document ID: US 5706810 A

L42: Entry 5 of 7

File: USPT

Jan 13, 1998

US-PAT-NO: 5706810

DOCUMENT-IDENTIFIER: US 5706810 A

TITLE: Magnetic resonance imaging assisted cryosurgery

DATE-ISSUED: January 13, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rubinsky; Boris	Albany	CA		
Gilbert; John	Berkeley	CA		
Wong; San	Emeryville	CA		
Roos; Mark	San Francisco	CA		
Pease; Grant	Oakland	CA		

US-CL-CURRENT: 600/412; 600/549

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 6. Document ID: US 5651047 A

L42: Entry 6 of 7

File: USPT

Jul 22, 1997

US-PAT-NO: 5651047

DOCUMENT-IDENTIFIER: US 5651047 A

TITLE: Maneuverable and locateable catheters

DATE-ISSUED: July 22, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moorman; Jack W.	Los Gatos	CA		
Wilent, deceased; John W.	late of Aptos	CA		

US-CL-CURRENT: 378/98.8; 378/19, 600/373, 600/433

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 7. Document ID: US 5433717 A

L42: Entry 7 of 7

File: USPT

Jul 18, 1995

US-PAT-NO: 5433717

DOCUMENT-IDENTIFIER: US 5433717 A

TITLE: Magnetic resonance imaging assisted cryosurgery

DATE-ISSUED: July 18, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rubinsky; Boris	Albany	CA		
Gilbert; John	Berkeley	CA		
Wong; Sam	Emeryville	CA		
Roos; Mark	San Francisco	CA		
Pease; Grant	Oakland	CA		

US-CL-CURRENT: 606/20; 600/411, 600/412

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MMIC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
(41 AND 35).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	7
(L41 AND L35).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	7

Display Format: [Previous Page](#)[Next Page](#)[Go to Doc#](#)

Hit List

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Generate OACS				

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 5304214 A

Using default format because multiple data bases are involved.

L54: Entry 1 of 1

File: USPT

Apr 19, 1994

US-PAT-NO: 5304214

DOCUMENT-IDENTIFIER: US 5304214 A

TITLE: Transurethral ablation catheter

DATE-ISSUED: April 19, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DeFord; John A.	Lafayette	IN		
Ely; Joseph F.	West Lafayette	IN		
Fearnot; Neal E.	West Lafayette	IN		

US-CL-CURRENT: 607/105; 604/916, 607/113

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	WOC	Draw Dg
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
WAND	13617
WANDS	12168
PROBE	308438
PROBES	136463
ROD	1505384
RODS	608659
TUBE	2003071
TUBES	726554
CAPACIT\$4	0
CAPACIT	8013
CAPACITA	1519

(L53 AND ((WAND OR PROBE OR ROD OR TUBE) WITH (CAPACIT\$4))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1
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There are more results than shown above. Click here to view the entire set.

.....

Display Format:

[Previous Page](#)

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[Go to Doc#](#)

02sep04 14:01:10 User259284 Session D2885.5

File 342:Derwent Patents Citation Indx 1978-04/200454
(c) 2004 Thomson Derwent

Set	Items	Description
? s rf=doty		
S1	188	RF=DOTY
? s s1 and rf=1981		
S2	91	S1 AND RF=1981
? s s2 and probe??		
	91	S2
	23975	PROBE??
S3	12	S2 AND PROBE??
? s s2 and wand????		
	91	S2
	692	WAND????
S4	0	S2 AND WAND????
? s rf=dody		
S5	3	RF=DODY
S6	1	S5 AND RF=1981
S7	1	S6 AND PROBE??
S8	12	S3

6 Select Statement(s), 63 Search Term(s)
Serial#SD715

1 SearchSaves, 63 Search Term(s)
? b 350 347;ex
02sep04 14:03:28 User259284 Session D2885.6

SYSTEM:OS - DIALOG OneSearch
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200456
(c) 2004 Thomson Derwent
File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)
(c) 2004 JPO & JAPIO

Set	Items	Description
S1	15	S1:S5
S2	14	S1 AND (PROBE?? OR WAND????? OR COLLAR????? OR SLID???????) OR ADJUST???????)
S3	15	S1:S2
S4	0	S1 AND COLLAR?????????
S5	2060	SLID?????(3N)COLLAR?????????
S6	11	S5 AND (PROBE?? OR WAND???????)
S7	1	S5 AND (NMR OR MR OR MRI OR MAGNETIC()RESONANCE?????)
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	1	PN=US 5982179
S8	2	PN=(US 4996482 OR US 5982179)
? map pn		

1 Select Statement(s), 2 Search Term(s)
Serial#SD716

1 SearchSaves, 2 Search Term(s)
? b 342;ex
02sep04 14:10:07 User259284 Session D2885.7

NPC-STIC Sent
10/624,744
History
and
results
Sept 2nd - 2004

File 342:Derwent Patents Citation Indx 1978-04/200454
(c) 2004 Thomson Derwent

Set	Items	Description
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	1	PN=US 5982179
	2	PN=US 4996482 + PN=US 5982179
S1	2	Serial: SD716

? map pn/ct=

1 Select Statement(s), 2 Search Term(s)
Serial#SD717

1 SearchSaves, 2 Search Term(s)
? ex
Executing SD717

	3	CT=US 4996482
	0	CT=US 5982179
	3	CT=US 4996482 + CT=US 5982179
S2	3	Serial: SD717
		F D

Set	Items	Description
S1	2	PN=US 4996482 + PN=US 5982179
S2	3	CT=US 4996482 + CT=US 5982179

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200456

(c) 2004 Thomson Derwent

Set Items Description

? s pn=US 5768089
S1 1 PN=US 5768089
? t s1/9/1

1/9/1

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

011945164 **Image available**

WPI Acc No: 1998-362074/199831

XRAM Acc No: C98-111333

XRFX Acc No: N98-282726

Variable external capacitor for an NMR probe - has a housing containing a movable internal and fixed external member and defines a passageway for insertion of adjustment tools etc.

Patent Assignee: VARIAN ASSOC INC (VARI)

Inventor: FINNINGAN J P; FINNIGAN J P

Number of Countries: 025 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5768089	A	19980616	US 97781422	A	19970110	199831 B
EP 930511	A2	19990721	EP 98300267	A	19980115	199933 N

Priority Applications (No Type Date): US 97781422 A 19970110; EP 98300267 A 19980115

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5768089	A		14	H01G-005/00	
EP 930511	A2 E			G01R-033/36	

Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): US 5768089 A

A variable external capacitor for an NMR probe comprises: a housing (12) defining a capacitor cavity which contains an internal capacitor member (18) moveable within the cavity to vary its distance from an external capacitor member (34); a current rail (22) connected between a ring (36) and the internal member; and a plunger (20) connected to the internal member and the rail to move the internal member in the cavity. The housing is preferably a PTFE cylinder with Ag deposited over one end to form the external member and around another end to form the ring.

ADVANTAGE - the variable capacitor provides a passageway (12) through which an adjustment tool may extend for adjusting components in the NMR probe, or through which other components may be inserted to increase probe functionality, without compromising the NMR circuit performance.

Dwg.2/7

Title Terms: VARIABLE; EXTERNAL; CAPACITOR; NMR; PROBE; HOUSING; CONTAIN; MOVE; INTERNAL; FIX; EXTERNAL; MEMBER; DEFINE; PASSAGE; INSERT; ADJUST; TOOL

Index Terms/Additional Words: NUCLEAR; MAGNETIC; RESONANCE

Derwent Class: A85; L03; V01

International Patent Class (Main): G01R-033/36; H01G-005/00

File Segment: CPI; EPI

Manual Codes (CPI/A-N): A04-E08; A12-E07B; A12-L04B; L03-B03

Manual Codes (EPI/S-X): V01-B02A

Polymer Indexing (PS):

<01>

001 018; R00975 G0022 D01 D12 D10 D51 D53 D59 D69 D82 F- 7A; H0000;

02sep04 14:13:14 User259284 Session D2885.10

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200456
(c) 2004 Thomson Derwent

Set	Items	Description
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S1	1	PN=US 4996482
? s pn=us 5982179		
S2	1	PN=US 5982179
? s s1:s2		
S3	2	S1:S2
? t s3/9/all		
Set	Items	Description
S1	1	PN=US 4996482
S2	1	PN=US 5982179
S3	2	S1:S2

02sep04 13:56:18 User259284 Session D2885.3

SYSTEM:OS - DIALOG OneSearch

File 34:SciSearch(R) Cited Ref Sci 1990-2004/Aug W5

(c) 2004 Inst for Sci Info

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec

(c) 1998 Inst for Sci Info

Set	Items	Description
S1	52	CR='DOTY FD, 1981, V43, P399, J MAGN RESON'
S2	0	S1 AND SLID????????
S3	0	S1 AND COLLAR????????
S4	1	S1 AND (TUBE???????? OR TUBULAR?????? OR HOLLOW??????)
S5	0	S1 AND WAND??????
S6	3	S1 AND (MULTINUC? OR MULTI()NUCLEAR??????? OR MULTIFREQ???- ???? OR MULTIPLE()FREQ??????)

02sep04 13:55:34 User259284 Session D2885.2

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1951-2004/Aug W5

(c) format only 2004 The Dialog Corp.

File 2:INSPEC 1969-2004/Aug W4

(c) 2004 Institution of Electrical Engineers

File 34:SciSearch(R) Cited Ref Sci 1990-2004/Aug W5

(c) 2004 Inst for Sci Info

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec

(c) 1998 Inst for Sci Info

Set	Items	Description
S1	1	MULTINUCLEAR() DOUBLE() TUNED() PROBE

02sep04 14:14:04 User259284 Session D2885.11

File 342:Derwent Patents Citation Indx 1978-04/200454
(c) 2004 Thomson Derwent

Set	Items	Description
S1	8696	RF=CROSS
S2	1409	S1 AND RF=1976
S3	137	S2 AND (RF=PROBE OR WAND???? OR PROBE????)
S4	7	S3 AND RF=TUNING
S5	592	RF=KAN
S6	183	S5 AND RF=1980
S7	8	S6 AND RF=TRIPLE
S8	38	S6 AND RF=PROBE??
S9	0	S6 AND RF=WAND??

? s s4 or s7

7 S4

8 S7

S10 13 S4 OR S7

? map pn

4 Select Statement(s), 39 Search Term(s)
Serial#SD718

1 SearchSaves, 39 Search Term(s)
? b 350 347 344;ex

02sep04 14:16:38 User259284 Session D2885.12

SYSTEM:OS - DIALOG OneSearch

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200456

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*File 350: For more current information, include File 331 in your search.

Enter HELP NEWS 331 for details.

File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)

(c) 2004 JPO & JAPIO

File 344:Chinese Patents Abs Aug 1985-2004/May

(c) 2004 European Patent Office

Set	Items	Description
S1	16	S1:S3
S2	0	S1 AND COLLAR???????
S3	0	S1 AND SLID???????
S4	0	S1 AND (TUBE?????? OR TUBUL?????? OR HOLLOW???????)
S5	1	S1 AND CONTACT???????

1/9/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

01781249 INSPEC Abstract Number: A82003598

Title: A **multinuclear double-tuned probe** for applications with solids or liquids utilizing lumped tuning elements

Author(s): Doty, F.D.; Inners, R.R.; Ellis, P.D.

Author Affiliation: Dept. of Chem., Univ. of South Carolina, Columbia, SC, USA

Journal: Journal of Magnetic Resonance vol.43, no.3 p.399-416

Publication Date: June 1981 Country of Publication: USA

CODEN: JOMRA4 ISSN: 0022-2364

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: A high-efficiency **multinuclear double-tuned probe** using lumped-element construction is compared and contrasted with a transmission line probe. A rationale for improved efficiency at the high frequency and a commensurate improvement in the signal-to-noise ratio is developed. Powder spectra obtained at 44.4 MHz with the lumped-element probe are shown and pertinent construction details are given. (12 Refs)

Subfile: A

Descriptors: magnetic resonance spectroscopy; nuclear magnetic resonance; spectrometer components and accessories

Identifiers: powder spectra; NMR; **multinuclear double-tuned probe**; solids; liquids; lumped tuning elements; signal-to-noise ratio

Class Codes: A0758 (Magnetic resonance spectrometers, auxiliary instruments and techniques)

4/9/1 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2004 Inst for Sci Info. All rts. reserv.

07686266 Genuine Article#: 196HX Number of References: 15

Title: Gas flow MRI using circulating laser-polarized Xe-129

Author(s): Brunner E; Haake M; Kaiser L (REPRINT) ; Pines A; Reimer JA

Corporate Source: UNIV CALIF BERKELEY,LAWRENCE BERKELEY NATL LAB, DIV MAT

SCI/BERKELEY//CA/94720 (REPRINT); UNIV CALIF BERKELEY,LAWRENCE BERKELEY

NATL LAB, DIV MAT SCI/BERKELEY//CA/94720; UNIV CALIF BERKELEY,DEPT

CHEM/BERKELEY//CA/94720; UNIV CALIF BERKELEY,DEPT CHEM

ENGN/BERKELEY//CA/94720

Journal: JOURNAL OF MAGNETIC RESONANCE, 1999, V138, N1 (MAY), P155-159

ISSN: 1090-7807 Publication date: 19990500

Publisher: ACADEMIC PRESS INC, 525 B ST, STE 1900, SAN DIEGO, CA 92101-4495

Language: English Document Type: ARTICLE

Geographic Location: USA

Subfile: CC PHYS--Current Contents, Physical, Chemical & Earth Sciences; CC

LIFE--Current Contents, Life Sciences

Journal Subject Category: PHYSICS, ATOMIC, MOLECULAR & CHEMICAL;

BIOCHEMICAL RESEARCH METHODS

Abstract: We describe an experimental approach that combines

multidimensional NMR experiments with a steadily renewed source of laser-polarized Xe-129. Using a continuous flow system to circulate the gas mixture, gas phase NMR signals of laser-polarized Xe-129 can be observed with an enhancement of three to four orders of magnitude compared to the equilibrium Xe-129 NMR signal. Due to the fact that the gas flow recovers the nonequilibrium Xe-129 nuclear spin polarization in 0.2 to 4 s, signal accumulation on the time scale of seconds is feasible, allowing previously inaccessible phase cycling and signal manipulation. Several possible applications of MRI of laser-polarized Xe-129 under continuous flow conditions are presented here. The spin density images of capillary **tubes** demonstrate the feasibility of imaging under continuous flow. Dynamic displacement profiles, measured by a pulsed gradient spin echo experiment, show entry flow properties of the gas passing through a constriction under laminar flow conditions. Further, dynamic displacement profiles of Xe-129, flowing through polyurethane foams with different densities and pore sizes, are presented. (C) 1999 Academic Press.

Descriptors--Author Keywords: laser-polarized Xe-129 ; MRI ; gas flow imaging ; continuous flow

Identifiers--KeyWord Plus(R): HYPERPOLARIZED HE-3; NMR; DIFFUSION; GRADIENT; XENON

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6/9/1 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

11977224 Genuine Article#: 717NC Number of References: 52
Title: Design of small volume HX and triple-resonance probes for improved limits of detection in protein NMR experiments
Author(s): Li Y; Logan TM; Edison AS (REPRINT) ; Webb A
Corporate Source: Natl High Magnet Field Lab,Tallahassee//FL/32310 (REPRINT); Natl High Magnet Field Lab,Tallahassee//FL/32310; Florida State Univ,Dept Chem & Biochem,Tallahassee//FL/32306; Univ Illinois,Dept Elect & Comp Engr,Urbana//IL/61801; Univ Illinois,Beckman Inst Adv Sci & Technol,Urbana//IL/61801; Univ Florida,Dept Biochem & Mol Biol,Gainesville//FL/32610; Univ Wurzburg,Lehrstuhl Expt Phys 5,Wurzburg//Germany/
Journal: JOURNAL OF MAGNETIC RESONANCE, 2003, V164, N1 (SEP), P128-135
ISSN: 1090-7807 Publication date: 20030900
Publisher: ACADEMIC PRESS INC ELSEVIER SCIENCE, 525 B ST, STE 1900, SAN DIEGO, CA 92101-4495 USA
Language: English Document Type: ARTICLE
Geographic Location: USA; Germany
Journal Subject Category: BIOCHEMICAL RESEARCH METHODS; PHYSICS, ATOMIC, MOLECULAR & CHEMICAL; SPECTROSCOPY
Abstract: Three- and four-frequency nuclear magnetic-resonance probes have been designed for the study of small amounts of protein. Both "HX" (H-1, X, and H-2 channels) and "triple-resonance" (H-1, N-15, C-13, and H-2) probes were implemented using a single transmit/receive coil and **multiple-frequency** impedance matching circuits. The coil used was a six-turn solenoid with an observe volume of 15 μ l. A variable pitch design was used to improve the B-1 homogeneity of the coil. Two-dimensional HSQC spectra of similar 101 mM single labeled N-15- and double labeled N-15/C-13-proteins were acquired in experimental times of approximately 2h. Triple-resonance capability of the small-volume triple-resonance probe was demonstrated by acquiring three-dimensional HNCQ spectra from the same protein samples. In addition to enabling very small quantities of protein to be used, the extremely short pulse widths (H-1 = 4, N-15 = 4, and C-13 = 2 μ s) of this particular design result in low power decoupling and wide-bandwidth coverage, an important factor for the ever-higher operating frequencies used for protein NMR studies. (C) 2003 Elsevier Science (USA). All rights reserved.
Identifiers--KeyWord Plus(R): HIGH-RESOLUTION NMR; SOLENOIDAL MICROCOIL DESIGN; DOUBLE-TUNED PROBE; MAGNETIC-RESONANCE; HIGH-SENSITIVITY; COIL DESIGN; SAMPLE NMR; RF COIL; LC-NMR; SPECTROSCOPY

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DOTY FD, 2000, P3753, ENCY NMR
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6/9/2 (Item 2 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

06587071 Genuine Article#: ZC833 Number of References: 21
Title: Surface NMR using laser-polarized Xe-129 under magic angle spinning conditions
Author(s): Brunner E (REPRINT) ; Seydoux R; Haake M; Pines A; Reimer JA
Corporate Source: UNIV CALIF BERKELEY, LAWRENCE BERKELEY LAB, DIV MAT
SCI/BERKELEY//CA/94720 (REPRINT); UNIV CALIF BERKELEY, DEPT
CHEM/BERKELEY//CA/94720; UNIV CALIF BERKELEY, DEPT CHEM
ENGN/BERKELEY//CA/94720
Journal: JOURNAL OF MAGNETIC RESONANCE, 1998, V130, N1 (JAN), P145-148
ISSN: 1090-7807 Publication date: 19980100
Publisher: ACADEMIC PRESS INC JNL-COMP SUBSCRIPTIONS, 525 B ST, STE 1900,
SAN DIEGO, CA 92101-4495
Language: English Document Type: ARTICLE
Geographic Location: USA
Subfile: CC PHYS--Current Contents, Physical, Chemical & Earth Sciences; CC
LIFE--Current Contents, Life Sciences
Journal Subject Category: PHYSICS, ATOMIC, MOLECULAR & CHEMICAL;
BIOCHEMICAL RESEARCH METHODS
Abstract: NMR signals of surface nuclei of solids may be enhanced by the
transfer of spin polarization from laser-polarized noble gases. Until
now such experiments have not been feasible under conditions of magic
angle spinning. In the present contribution it is shown that
laser-polarized Xe-129 can be inserted into a spinning rotor under
continuous-flow conditions using helium as a carrier gas. Effective
adsorption of xenon on the sample occurs at temperatures of about
163-173 K making possible the observation of a spin polarization
induced nuclear Overhauser effect (SPINOE) from the laser-polarized
Xe-129 to surface H-1 nuclei of SiO2 (AEROSIL300). This technique opens
the way to selectively enhanced high-resolution **multinuclear**
surface NMR experiments. (C) 1998 Academic Press.
Descriptors--Author Keywords: laser-polarized Xe-129 ; nuclear magnetic
resonance ; magic angle spinning ; solid surfaces ; spin polarization
induced nuclear Overhauser effect
Identifiers--KeyWord Plus(R): IN-SITU NMR; SOLID CATALYSTS; XENON; PROBE;
NUCLEI; FLOW
Cited References:
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6/9/3 (Item 1 from file: 434)
DIALOG(R) File 434:SciSearch(R) Cited Ref Sci
(c) 1998 Inst for Sci Info. All rts. reserv.

04885170 Genuine Article#: PX650 Number of References: 93

Title: **MULTINUCLEAR**, MULTIFIELD, AND MULTIPHASE NUCLEAR

MAGNETIC-RESONANCE STUDY OF CADMIUM MESO-TETRAPHENYLPORPHYRIN AND ITS
PYRIDINE ADDUCT

Author(s): JAKOBSEN HJ; ELLIS PD; INNERS RR; JENSEN CF

Corporate Source: AARHUS UNIV,DEPT CHEM/DK-8000 AARHUS C//DENMARK/; UNIV S
CAROLINA,DEPT CHEM/COLUMBIA//SC/29208

Journal: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, 1982, V104, N26, P
7442-7452

Language: ENGLISH Document Type: ARTICLE

Geographic Location: DENMARK; USA

Subfile: SciSearch; CC PHYS--Current Contents, Physical, Chemical & Earth
Sciences; CC LIFE--Current Contents, Life Sciences

Journal Subject Category: CHEMISTRY

Research Fronts: 83-0245 001 (ELECTRON-SPIN-RESONANCE AND OTHER
SPECTROSCOPIC STUDIES OF PORPHYRINS AND THEIR METAL-COMPLEXES)

83-1380 001 (STRUCTURAL ASSIGNMENT AND OTHER ASPECTS OF
MULTINUCLEAR 2-DIMENSIONAL NUCLEAR-MAGNETIC-RESONANCE
SPECTROSCOPY)

83-1691 001 (SYNTHESIS AND REACTIONS OF PYRROLE MACROCYCLES AND
PORPHYRINS)

83-2357 001 (SPECTROSCOPIC STUDY OF THE BINDING EFFECTS OF
METALLOTHIONEIN INDUCED BY CADMIUM, COPPER OR ZINC)

83-4947 001 (DEUTERIUM, CARBON-13 AND OTHER NUCLEAR-MAGNETIC-RESONANCE
STUDIES OF THE DYNAMICS OF PHOSPHOLIPIDS AND PROTEINS IN LIPID MEMBRANE
SYSTEMS)

83-8455 001 (APPLICATION OF NITROGEN-15 NUCLEAR-MAGNETIC-RESONANCE IN
STRUCTURAL STUDIES)

83-3991 003 (CONFORMATION AND SPIN-LATTICE RELAXATION STUDIES USING
CARBON-13 NUCLEAR-MAGNETIC-RESONANCE SPECTROSCOPY)

83-0917 004 (SOLID-STATE STUDIES OF POLYMERS AND BIOMOLECULES USING
HIGH-RESOLUTION AND CROSS-POLARIZATION MAGIC-ANGLE-SPINNING CARBON-13
NUCLEAR-MAGNETIC-RESONANCE)

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3/9/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014914020 **Image available**

WPI Acc No: 2002-734727/200280

XRFX Acc No: N02-579228

Multiple-tuned circuit and **probe** for use in nuclear magnetic
resonance spectrometer, permits high power operation of tuned circuits
and enhances resonant frequencies in both higher and lower ranges

Patent Assignee: JEOL CO LTD (NIDS)

Inventor: HASEGAWA K

Number of Countries: 028 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1249709	A1	20021016	EP 2002252529	A	20020409	200280 B
US 20020171426	A1	20021121	US 2002117985	A	20020408	200301
JP 2002372575	A	20021226	JP 2001317716	A	20011016	200314
US 6686741	B2	20040203	US 2002117985	A	20020408	200414 N

Priority Applications (No Type Date): JP 2001317716 A 20011016; JP
2001111326 A 20010410

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 1249709	A1	E	22	G01R-033/36	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI TR

US 20020171426	A1			G01V-003/00	
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JP 2002372575	A		11	G01R-033/32	
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US 6686741	B2			G01V-003/00	
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Abstract (Basic): **EP 1249709 A1**

NOVELTY - The inventive tuned circuit and **probe** for use in a
nuclear magnetic resonance (NMR) spectrometer has a balanced resonator
circuit incorporated, in contrast to the unbalanced coaxial resonator
used in prior art circuitry. Tuning and matching circuits for higher
frequencies (HF) are connected in an intermediate position in the
balanced circuit. A capacitive tuning element for lower frequencies
(LF) is inserted between the balanced resonator and sample coil (1), or
in an intermediate position in the resonator circuit.

USE - As multiple-tuned circuit for NMR spectrometer.

ADVANTAGE - Uses balanced resonator circuit with tuning/matching
circuitry on high frequency side of spectrum at intermediate positions,
as opposed to conventional unbalanced circuitry, so improving power
input capacity enabling reduction of applied RF voltage to circuit
components to one half or less, also having capacitive tuning elements
for lower frequencies between the resonator circuit and sample coil, or
intermediately, thus generally increasing resonant frequencies
obtainable on both the higher and lower sides of the spectrum.

DESCRIPTION OF DRAWING(S) - The drawing illustrates schematically
the multiple-tuned circuit for use in an NMR spectrometer.

Sample coil (1)

pp; 22 DwgNo 4/11

Title Terms: MULTIPLE; TUNE; CIRCUIT; **PROBE**; NUCLEAR; MAGNETIC;

RESONANCE; SPECTROSCOPE; PERMIT; HIGH; POWER; OPERATE; TUNE; CIRCUIT;

ENHANCE; RESONANCE; FREQUENCY; HIGH; LOWER; RANGE

Derwent Class: S01; S03

International Patent Class (Main): G01R-033/32; G01R-033/36; G01V-003/00

File Segment: EPI

Manual Codes (EPI/S-X): S01-E02A1; S01-E02A8X; S03-E07C

3/9/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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012964860

WPI Acc No: 2000-136711/200012

Related WPI Acc No: 1993-143013; 1996-128584; 1996-286393; 1996-287200;
1997-470033; 1998-041295; 1999-610236; 2001-464211; 2002-088875;
2002-706220; 2003-101738; 2003-606417

XRAM Acc No: C00-041868

Oligonucleotide **probes** comprise contiguous overlapping common
sequence for sequencing entire genomes by hybridization

Patent Assignee: HYSEQ INC (HYSE-N)

Inventor: CRKVENJAKOV R B; DRMANAC R T

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6018041	A	20000125	US 88175088	A	19880330	200012 B

Priority Applications (No Type Date): YU 87570 A 19870401

Abstract (Basic): **US 6018041 A**

NOVELTY - Novel oligonucleotide **probes** (I) having a
predetermined sequence and the same predetermined length (n), but each
oligonucleotide comprises a contiguous overlapping common sequence of
length (n-1) with at least one other **probe**, so when the
probes are hybridized to a nucleic acid the **probe** sequence,
or a subset, determine a sequence of the nucleic acid that is longer
than n.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for
oligonucleotides (I) which when hybridized determine a completely
complementary region of a target nucleic acid or hybridize to a target
nucleic acid which includes an insert of a subclone.

ACTIVITY - None given.

MECHANISM OF ACTION - None given.

USE - The oligonucleotide **probes** are useful for sequencing
the entire genome, with the aid of a computerized assembly, by
hybridization of genomic DNA multiplied as subclones.

ADVANTAGE - The oligonucleotide **probes** allow the sequencing
of entire genome a magnitude quicker and cheaper than the prior art.

pp; 10 DwgNo 0/0

Technology Focus:

TECHNOLOGY FOCUS - BIOTECHNOLOGY - Preferred **Probes**: (I)
preferably have a length of 11-20 nucleotides (n=11-20), and in a
primary sequence informative sense, are the same as a set of shorter
nucleotide **probes**. The nucleic acid is preferably a fragment of a
subclone comprising a vector and an insert, and is preferably 100-7000
nucleotides in length. Preferably n=11 and the **probes** have the
formula N6(N5) or (N5)N6:

N6=the sequence of the terminal six nucleotides of a terminus of
the vector; and

N5=the complete set of 5-mers.

The **probes** may preferably comprise 56064 subsets, each subset
being composed of the complete set of 64 **probes** having the
formula NN(N8)N:

N=A, G, C or T; and

N8=octanucleotide having a G+C content of at least 3, where the
octanucleotide of each subset is unique.

Optionally, a second set of subsets are preferably included
comprising:

23,044 subsets, each being composed of the complete set of 16
probes having the formula N(N9)N:

N=A, T, C or G; and

N9=nonanucleotide having a G+C content of 1 or 2, where each
nonanucleotide of each subset is unique; and/or,

1,024 subsets, each being composed of the complete set of 4
probes having the formula N(N10):

N=A, T, C or G; and

N10=decanucleotide having a G+C content of 0, where each decanucleotide of each subset is unique.

The **probes** may preferably comprise 65,356 subsets each subset being composed of the complete set of 64 **probes** having the formula NN(N8)N as above, which when hybridized to a nucleic acid determine a sequence of the nucleic acid.

Extension Abstract:

EXAMPLE - The procedure of competitive hybridization was performed using the sequence 7 base pairs (bp) long repeated twice. In this case two fragments of a subclone sequence (SFs) ended and two others began with the repeating sequence TTAAAGG:

5'-NNNNNNNNNNNCATTAAAGG-3';

5'-NNNNNNNNNNNCGTTAAAGG-3';

5'-TTAAAGGTACNNNNNNNN-3'; and

5'-TTAAAGGCCGNNNNNNNN-3';

where:

N=A, G, C or T.

Prehybridization with surplus of an unmarked oligonucleotide **probe** (ONP), e.g., 5'-NNCATTAAAGN-3', which cannot hybridize with 5'-NNCGTTAAAGG-3' due to one uncomplimentary base prevents one of the labeled ONPs-5'-NNAAAGGGTACN-3' or 5'-NNAACTGCCCGN-3' from the subsequent hybridization. A pair of mutually competing **probes** defined a pair of SFs which follow one another. This could be confirmed by an alternative choice of a suitable ONP pair. This procedure may be applied on all repeating oligonucleotide sequences (ONSSs) having the length of up to 18 bp. In order to use it for the ordering of a multitude of SFs, prehybridization must be separated from hybridization in both time and space. Therefore, the stability of a hybrid with unlabeled ONP was important. If such stability cannot be achieved by appropriate concentrations of ONPs and by choice of hybridizing temperatures, then a covalent link should be formed between a cold ONP and complementary DNA by UV radiation in presence of psoralen. Alternatively, one might use ONPs which carry reactive groups for covalent linking.

The subclones were used to link the sequenced portions into a uniform sequence of the entire DNA fragment being sequenced. Approximately 170 subclones are required for 1 million bp. These and other numbers calculated for 1 million bp increase linearly with length for longer DNA fragments. Since these subclones contained sequences which were distanced at 100 kbp on average, they allowed jumping over repeated or uncloned sequences, the size of which increased up to 100 kb. This was done by detecting which of the two sequenced portions contained sequences located in one subclone.

The experimental requirement was to have the total number of 50,000 ONPs and hybridizations, and 2120 separated hybridizing subclone samples per DNA fragment approximately 1,000,000 bp long.

The hybridization was performed in cycles. One cycle required at maximum one day. All the subclones were hybridized with a certain number of ONPs in one cycle. In order to have the hybridization completed within a reasonable period, an experiment in each cycle should require approximately 1000 containers, each with one ONP. For the purpose of saving ONPs, a smaller volume of hybridizing liquid was used, and therefore filters were added in several turns. Filters from all hybridizing containers were collected in one container, and were simultaneously processed further i.e., they were washed and biotin was used for labeling of ONPs instead of radioactive particles, colored reactions were developed. All subclones required for sequencing (up to 10 kb in length) could be hybridized in containers with the dimensions 20 x 20 x 20 cm without having to repeat individual cycles

Title Terms: **PROBE**; COMPRISE; CONTIGUOUS; OVERLAP; COMMON; SEQUENCE; SEQUENCE; HYBRID

Derwent Class: B04; D16

International Patent Class (Main): C07H-021/02

International Patent Class (Additional): C07H-021/04; C12Q-001/68

File Segment: CPI

Manual Codes (CPI/A-N): B04-E01; B04-E05; B11-C08E4; B11-C08E5; B12-K04;

D05-H09; D05-H12A; D05-H12D1; D05-H18A

3/9/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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012384071 **Image available**

WPI Acc No: 1999-190178/199916

Related WPI Acc No: 1998-427564; 2000-053305

XRAM Acc No: C99-059941

New oligonucleotide **probe** arrays - comprising oligonucleotide
probes arranged to form an array in wells formed from a material
which forms a physical barrier on a substrate
Patent Assignee: HYSEQ INC (HYSE-N); DRMANAC R T (DRMA-I); DRMANAC S
(DRMA-I)

Inventor: BAIDYA N; DRMANAC R; DRMANAC S; DRMANAC R T

Number of Countries: 083 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9909217	A1	19990225	WO 98US16966	A	19980814	199916 B
AU 9889081	A	19990308	AU 9889081	A	19980814	199929
EP 1012335	A1	20000628	EP 98940915	A	19980814	200035
			WO 98US16966	A	19980814	
CN 1273609	A	20001115	CN 98808165	A	19980814	200115
KR 2001022917	A	20010326	KR 2000701522	A	20000215	200161
JP 2001514906	W	20010918	WO 98US16966	A	19980814	200169
			JP 2000509878	A	19980814	
US 20020034737	A1	20020321	US 97812951	A	19970304	200224
			US 97892503	A	19970714	
			US 97912885	A	19970815	
			US 97947779	A	19971009	
US 6383742	B1	20020507	US 97784747	A	19970116	200235
			US 97812951	A	19970304	
			US 97892503	A	19970714	
			US 97912885	A	19970815	
US 20030108897	A1	20030612	US 97784747	A	19970116	200340
			US 97812951	A	19970304	
			US 97892503	A	19970714	
			US 97912885	A	19970815	
			US 97947779	A	19971009	
			US 2002187251	A	20020701	
AU 2003200470	A1	20030410	AU 9889081	A	19980814	200433 N
			AU 2003200470	A	20030210	

Priority Applications (No Type Date): US 97959365 A 19971028; US 97912885 A
19970815; US 97947779 A 19971009; US 97812951 A 19970304; US 97892503 A
19970714; US 97784747 A 19970116; US 2002187251 A 20020701; AU 2003200470
A 20030210

Abstract (Basic): WO 9909217 A

NOVELTY - (A) A novel array of oligonucleotide (ON) **probes**
comprises a substrate and a material that forms a physical barrier,
where the material is disposed on the substrate to form a grid of
wells; and where the ON **probes** are arranged to form an array in
the wells, where each well contains one spot of **probes** fixed on
the substrate.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:
(1) a sequencing chip comprising arrays as in (A); (2) an array of ON
probes comprising a substrate having more than one level, where
the **probes** are fixed to the levels in the substrate; (3) a method
for analysing a target nucleic acid comprising: (a) contacting the
target nucleic acid with ON **probes**, where the **probes** are
complexes with different discrete particles that can be discriminated
from one another based on a physical property and where a different
probe is complexed with each type of discrete particle; (b)
detecting those **probes** that are complementary to the target
nucleic acid; and (c) analysing the target nucleic acid from a set of
complementary **probes**; (4) a method for analysing a target nucleic
acid comprising: (a) contacting the target nucleic acid with a
probe to allow a perfect match to be discriminated from a

mismatch, where an agent is added which will increase the discrimination of the perfect match from the mismatch; and (b) detecting whether the **probe** is complementary to the target nucleic acid; and (5) a method for analysing a target nucleic acid comprising: (a) providing an array of fixed ON **probes**; (b) providing labelled ON **probes**; (c) contacting the target nucleic acid with the fixed **probes** and the labelled **probes** to allow the **probes** which form perfect matches with the target nucleic acid to be distinguished from the **probes** with a one base mismatch to the target nucleic acid, where an agent is added which increases the discrimination of the perfect match from the one base pair mismatch; (d) covalently joining the fixed **probe**, bound at a site in the target nucleic acid that is adjacent to the site on which the fixed **probe** is bound; and (e) identifying the fixed **probes** and the labelled **probes** that are covalently joined.

USE - The products and methods can be used for detecting target nucleic acids and for sequencing nucleic acids.

ADVANTAGE - The use of a material that forms a physical barrier prevents cross contamination between adjacent subarrays.

Dwg.3/3

Title Terms: NEW; **PROBE**; ARRAY; COMPRISE; **PROBE**; ARRANGE; FORM;

ARRAY; WELL; FORMING; MATERIAL; FORM; PHYSICAL; BARRIER; SUBSTRATE

Derwent Class: B04; D16

International Patent Class (Main): C12Q-001/68

International Patent Class (Additional): C07H-021/02; C07H-021/04;

C12N-015/09; C12P-019/34; G01N-033/00; G01N-033/566

File Segment: CPI

Manual Codes (CPI/A-N): B04-B03C; B04-E01; B04-E05; B11-C08E5; B12-K04F;

D05-H09; D05-H10; D05-H12D1; D05-H18A

Chemical Fragment Codes (M1):

01 M423 M710 M750 M903 N102 Q233 V753

02 M423 M430 M782 M903 N102 P831 Q233 V753

3/9/4 (Item 4 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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012010654

WPI Acc No: 1998-427564/199836

Related WPI Acc No: 1999-190178; 2000-053305

XRAM Acc No: C98-128886

Sequence analysis of nucleic acids - by hybridisation with array of
probes affixed to substrate and with array of labelled **probes**

, used in, e.g. forensics and gene mapping

Patent Assignee: HYSEQ INC (HYSE-N); DRMANAC R (DRMA-I)

Inventor: DRMANAC R; DRMANAC R T; DRMANAC S; HAUSER B; HOU A

Number of Countries: 082 Number of Patents: 012

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9831836	A1	19980723	WO 98US704	A	19980114	199836 B
AU 9861317	A	19980807	AU 9861317	A	19980114	199901
EP 968305	A1	20000105	EP 98905956	A	19980114	200006
			WO 98US704	A	19980114	
CZ 9902546	A3	20000216	WO 98US704	A	19980114	200016
			CZ 992546	A	19980114	
CN 1250485	A	20000412	CN 98803399	A	19980114	200035
KR 2000070230	A	20001125	WO 98US704	A	19980114	200131
			KR 99706457	A	19990716	
JP 2001509027	W	20010710	JP 98534497	A	19980114	200144
			WO 98US704	A	19980114	
BR 9806914	A	20010918	BR 986914	A	19980114	200158
			WO 98US704	A	19980114	
US 6297006	B1	20011002	US 97784747	A	19970116	200160
			US 97812951	A	19970304	
US 6309824	B1	20011030	US 97784747	A	19970116	200172
US 20020042048	A1	20020411	US 97784747	A	19970116	200227
			US 97812951	A	19970304	
			US 97892503	A	19970714	
AU 745201	B	20020314	AU 9861317	A	19980114	200231

Priority Applications (No Type Date): US 97892503 A 19970714; US 97784747 A
19970116; US 97812951 A 19970304

Patent Details:

Abstract (Basic): WO 9831836 A

The following are claimed: (1) a method for confirming sequencing results comprising: (a) obtaining a sequence from a nucleic acid using sequencing by hybridisation (SBH); (b) identifying a set of **probes** that are complementary and not exactly complementary to the sequence of a nucleic acid; (c) hybridising the **probes** to a nucleic acid under conditions that allow the differentiation of perfect matched from one base mismatches, and (d) confirming that the **probes** do not form perfect matches with the nucleic acid; (2) a method for confirming sequencing results comprising: (a) as in (1a); (b) selecting at least 1 primer for the nucleic acid; (c) sequencing the nucleic acid with the primer using Sanger-sequencing, and (d) comparing the sequence of the nucleic acid derived from SBH to the sequence for the nucleic acid derived from Sanger sequencing; (3) a method for ordering subclone fragments (Sfs) from a nucleic acid sequence comprising: (a) as in (1a); (b) identifying primers from the sequence of Sfs, which can initiate a replication reaction on the nucleic acid that will read through a branch point; (c) as in (2c); (d) as in (2d), but where the order of the Sfs is determined; (4) **probes** for analysing a nucleic acid which are used to interrogate the nucleic acid where the **probes** can be differentiated from each other; (5) a set of **probes** for analysing a nucleic acid, comprising pools of **probes** where each pool is used to interrogate a nucleic acid, and where the **probes** are labelled with different labels, where the **probes** in each pool can be differentiated from each other by the different labels attached to the **probes**; (6) a method for analysing a nucleic acid comprising: (a) providing an array

of oligonucleotide **probes**; (b) introducing a sample nucleic acid to the array; (c) adding labelled **probes** to the array to allow the differentiation of perfect matches from one base mismatches; (d) adding ligase to the array; (e) incubating the ligase, labelled **probes**, sample nucleic acid and array **probes** where the labelled **probe** is ligated to array **probes** when the labelled **probe** is adjacent to the array **probe** on the sample nucleic acid, and (f) detecting the labelled **probes** that have been ligated to the array; (7) a method for analysing nucleic acids, comprising: (a) obtaining a sample comprising nucleic acids, where a target nucleic acid (TNA) is present at least in a 1:99 ratio of a nucleic acid that is homologous to the target and differs by at least 1 nucleotide from the target; (b) selecting a set of **probes** that will identify the TNA; (c) mixing the sample and the **probes** to allow the differentiation of perfect matches from one base mismatches, and (d) identifying whether the **probes** form a perfect match with a nucleic acid in the sample; (8) an apparatus for analysing a nucleic acid comprising: (a) a first array of nucleic acids; (b) a second array of nucleic acids; (c) a material disposed between the first and second arrays that prevents the mixing of the nucleic acids in the first array with the nucleic acids in the second array, and (9) a method for analysing a TNA comprising: (a) providing an array of bound **probes** of known sequence fixed to a substrate; (b) providing an array of labelled **probes** of known sequence; (c) providing a material disposed between the arrays of bound and labelled **probes** that prevents the mixing of the **probes** in the bound and labelled **probe** arrays; (d) adding the TNA to the labelled **probes**; (e) removing the material between the bound and labelled **probes** so that the labelled **probes**, bound **probes** and TNAs are mixed together as in (7c); (f) joining the bound and labelled **probes** that are hybridised to adjacent sites in the TNA, and (g) detecting the labelled **probe** that has been joined to the bound **probe** array.

USE - The methods can be used in nucleic acid diagnostics, forensics, and gene mapping. They can also be used to identify mutations responsible for genetic disorders and other traits, to assess biodiversity and to produce many other types of data dependent on nucleic acid sequence.

Dwg.0/0

Title Terms: SEQUENCE; ANALYSE; NUCLEIC; ACID; HYBRID; ARRAY; **PROBE**; AFFIX; SUBSTRATE; ARRAY; LABEL; **PROBE**; GENE; MAP

Derwent Class: B04; D16

International Patent Class (Main): C12Q-001/68

International Patent Class (Additional): C07H-021/02; C07H-021/04; C07K-001/00; C07K-014/00; C07K-017/00; C12M-001/00; C12N-009/00; C12N-015/09; C12P-019/34; G01N-033/00; G01N-033/53; G01N-033/566; G01N-033/58

3/9/5 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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011045411 **Image available**

WPI Acc No: 1997-023335/199703

XRPX Acc No: N97-019334

Sample spin speed monitoring and control system for NMR spectrometer -
has NMR **probe** fitted with audio transducer near gas jet rotor drive
bearings for frequencies emitted by sample during rotation and digital
processor

Patent Assignee: VARIAN ASSOC INC (VARI)

Inventor: BALTUSIS L

Number of Countries: 006 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 747718	A1	19961211	EP 96304022	A	19960604	199703 B
JP 9101272	A	19970415	JP 96166693	A	19960607	199725
US 5644235	A	19970701	US 95475112	A	19950607	199732
US 5729142	A	19980317	US 95475112	A	19950607	199818
			US 96650676	A	19960520	
EP 747718	B1	19990901	EP 96304022	A	19960604	199940
DE 69604019	E	19991007	DE 604019	A	19960604	199947
			EP 96304022	A	19960604	

Priority Applications (No Type Date): US 95475112 A 19950607; US 96650676 A
19960520

Cited Patents: Jnl.Ref

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 747718	A1	E	14	G01R-033/30	
Designated States (Regional): CH DE GB LI					
JP 9101272	A		9	G01N-024/08	
US 5644235	A		13	G01V-003/00	
US 5729142	A		13	G01V-003/00	Div ex application US 95475112
EP 747718	B1	E		G01R-033/30	
Designated States (Regional): CH DE GB LI					
DE 69604019	E			G01R-033/30	Based on patent EP 747718

Abstract (Basic): EP 747718 A

The system monitors the sample spin speed in a nuclear magnetic resonance spectrometer. The system comprises an audio transducer (703) near the bearings of the **probe** spinner. An audio signal receiver (704) and digitiser (705) are connected to the transducer to detect and amplify the audio signal and digitise the audio signal.

A data processor (706) accumulates and stores the digitised audio signals and processes them for interpretation and display. The data gathered are also used by the processor to regulate the drive pressure and bearing pressure via the pneumatics and tachometer box (707). The processor controls the supplies of drive gas (708) and bearing gas (709).

ADVANTAGE - System allows use of spectrometer in automated fashion. In case of catastrophic 'crashes' processor can command termination of experiment and spinning.

Dwg.7/7

Abstract (Equivalent): US 5729142 A

The system monitors the sample spin speed in a nuclear magnetic resonance spectrometer. The system comprises an audio transducer (703) near the bearings of the **probe** spinner. An audio signal receiver (704) and digitiser (705) are connected to the transducer to detect and amplify the audio signal and digitise the audio signal.

A data processor (706) accumulates and stores the digitised audio signals and processes them for interpretation and display. The data gathered are also used by the processor to regulate the drive pressure and bearing pressure via the pneumatics and tachometer box (707). The processor controls the supplies of drive gas (708) and bearing gas (709).

ADVANTAGE - System allows use of spectrometer in automated fashion.
In case of catastrophic ''crashes'' processor can command termination
of experiment and spinning.

Dwg.2/7

US 5644235 A

An apparatus for recording and analysis of a complete audio
spectrum of a rotating sample in a nuclear magnetic resonance
spectrometer comprising:

a. a polarizing magnet for imposing a DC magnetic field on said
sample;

b. a nuclear magnetic resonance **probe**, comprising a rotor for
containing a sample and rotation thereof responsive to pressurized gas
directed along the outer surface thereof, and a stator surrounding said
rotor, comprising bearing and drive gas jets to cause rotation of said
rotor;

c. said nuclear magnetic resonance **probe** comprising an audio
transducer proximate to said bearing and drive gas jets for acquiring
the substantially entire frequency range of audio signals including the
fundamental sample spinning frequency and higher and lower harmonics
emitted by said sample during rotation;

d. an audio analyzer responsive to said substantially entire range
of audio signals including the fundamental spinning frequency and
higher and lower harmonics emitted by said sample during rotation;

e. a processor connected to said audio analyzer for accumulating,
storing, and analyzing the entire audio spectrum emitted by said sample
during rotation.

Dwg.1/7

Title Terms: SAMPLE; SPIN; SPEED; MONITOR; CONTROL; SYSTEM; NMR;

SPECTROSCOPE; NMR; **PROBE**; FIT; AUDIO; TRANSDUCER; GAS; JET; ROTOR;

DRIVE; BEARING; FREQUENCY; EMIT; SAMPLE; ROTATING; DIGITAL; PROCESSOR

Derwent Class: S01; S02; S03; S05; T01

International Patent Class (Main): G01N-024/08; G01R-033/30; G01V-003/00

File Segment: EPI

Manual Codes (EPI/S-X): S01-E02A1A; S02-E02; S03-E07X; S05-D02B; T01-J07A

3/9/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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010790247

WPI Acc No: 1996-287200/199629

Related WPI Acc No: 1993-143013; 1996-128584; 1996-286393; 1997-470033;

1998-041295; 1999-610236; 2000-136711; 2001-464211; 2002-088875;

2002-706220; 2003-101738; 2003-606417

XRAM Acc No: C96-091905

XRFX Acc No: N96-241030

Nucleic acid sequencing by hybridisation - using nucleic acid segments on
different sectors of a substrate and **probes** which discriminate a
one base mismatch

Patent Assignee: HYSEQ INC (HYSE-N)

Inventor: DRMANAC R; DRMANAC R T

Number of Countries: 037 Number of Patents: 012

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9617957	A1	19960613	WO 95US16154	A	19951208	199629	B
AU 9644687	A	19960626	AU 9644687	A	19951208	199641	
NO 9702535	A	19970806	WO 95US16154	A	19951208	199742	
			NO 972535	A	19970604		
EP 797683	A1	19971001	EP 95943413	A	19951208	199744	
			WO 95US16154	A	19951208		
FI 9702429	A	19970806	WO 95US16154	A	19951208	199745	
			FI 972429	A	19970606		
KR 98700433	A	19980330	WO 95US16154	A	19951208	199901	
			KR 97703847	A	19970609		
JP 10512745	W	19981208	WO 95US16154	A	19951208	199908	
			JP 96517814	A	19951208		
AU 715506	B	20000203	AU 9644687	A	19951208	200016	
US 6025136	A	20000215	US 94353554	A	19941209	200016	
			US 97920295	A	19970828		
CN 1175283	A	19980304	CN 95197574	A	19951208	200208	
US 6403315	B1	20020611	US 94353554	A	19941209	200244	
			US 97920295	A	19970828		
			US 2000503442	A	20000214		
US 20020192691	A1	20021219	US 97920295	A	19970828	200303	N
			US 2000503442	A	20000214		
			US 2002133888	A	20020425		

Priority Applications (No Type Date): US 94353554 A 19941209; US 97920295 A
19970828; US 2000503442 A 20000214; US 2002133888 A 20020425

Cited Patents: 7.Jnl.Ref; US 5143854; US 5405783; US 5424186; US 5445934;
WO 9427719

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9617957 A1 E 73 C12Q-001/68

Designated States (National): AU BR BY CA CN CZ FI HU JP KR MX NO NZ PL
RU SG SK UA VN

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL
PT SE

AU 9644687 A Based on patent WO 9617957

NO 9702535 A C12Q-000/00

EP 797683 A1 E Based on patent WO 9617957

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
NL PT SE

FI 9702429 A C12Q-000/00

KR 98700433 A C12Q-001/68 Based on patent WO 9617957

JP 10512745 W 73 C12Q-001/68 Based on patent WO 9617957

AU 715506 B Previous Publ. patent AU 9644687

Based on patent WO 9617957

US 6025136 A C12Q-001/68 Cont of application US 94353554

CN 1175283 A C12Q-001/68

US 6403315 B1 C12Q-001/68 Cont of application US 94353554

Cont of application US 97920295

3/9/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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009238973 **Image available**
WPI Acc No: 1992-366394/199244
XRPX Acc No: N92-279211

Double tuned nuclear magnetic resonance spectrometer **probe** - uses
two tuned frequency circuits to generate required resonant frequency
signals for shape excitation

Patent Assignee: DOTY SCI INC (DOTY-N); DOTY F D (DOTY-I)

Inventor: DOTY D F; DOTY F D

Number of Countries: 017 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9217792	A1	19921015	WO 92US2786	A	19920401	199244 B
US 5162739	A	19921110	US 91681104	A	19910405	199248
EP 578782	A1	19940119	EP 92912330	A	19920401	199403
			WO 92US2786	A	19920401	
EP 578782	A4	19940406	EP 92912330	A	19920000	199530

Priority Applications (No Type Date): US 91681104 A 19910405

Cited Patents: US 4463328; US 4648405; US 4710719; US 4742304; US 4833412;
US 4916418; US 5038105; 4.Jnl.Ref; DE 3634030; JP 60057278; US 4792759

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 9217792	A1 E	18	G01R-033/20	
			Designated States (National): JP	
			Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LU MC NL SE	
US 5162739	A	7	G01R-033/20	
EP 578782	A1 E	2	G01R-033/20	Based on patent WO 9217792
			Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LI NL SE	
EP 578782	A4		G01R-033/20	

Abstract (Basic): WO 9217792 A

The nuclear magnetic resonance spectrometer **probe** with
ability to tune to two frequencies has a sample excitation coil (302)
connected at one end via a first balancing inductor (314) to ground
(320). The other end is connected via a second balancing inductor (313)
to a low frequency capacitor tuning and matching network (308,309).

The two balancing inductors have inductance less than 50 percent
but greater than 10 percent that of the excitation coil. Each balancing
coil is tuned by a capacitor network to an independent resonant
frequency when disconnected from the sample coil that is less than 95
percent but greater than 60 percent of the final high frequency
resonance.

ADVANTAGE - Able to observe more than one nuclide simultaneously
while using nuclear magnetic resonance spectrometer. Greatly enhanced
HF performance.

Dwg.3/5

Abstract (Equivalent): US 5162739 A

The double-tuned NMR sample excitation coil has a first end
connected through a first balancing inductor to ground and a second end
connected through a second balancing inductor to a low-frequency (LF)
capacitor tuning and matching network. Two balancing inductors have
inductance less than 50 percent but greater than 10 percent that of the
excitation coil.

Each balancing coil is tuned by a capacitor network to an
independent resonant frequency when disconnected from the sample coil
that is less than 95 percent but greater than 60 percent of the final
high frequency (HF) resonance. Moreover, both such independent resonant
frequencies are equal within 10 percent.

ADVANTAGE - Broadband operation is possible under variety of
temperatures and circuit works with high-speed sample spinners.

e-

Dwg.3/5

Title Terms: DOUBLE; TUNE; NUCLEAR; MAGNETIC; RESONANCE; SPECTROSCOPE;

3/9/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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008196520

WPI Acc No: 1990-083521/199011

XRAM Acc No: C90-036660

Identification of allele specific nucleic acid sequences - by
hybridisation with crosslinkable oligonucleotide **probes**
Patent Assignee: CIMINO G D (CIMI-I); HEARST J E (HEAR-I); ISAACS S T
(ISAA-I); LEVENSON C (LEVE-I); SAIKI R K (SAIK-I); HRI RES INC (HYDS)
Inventor: CIMINO G D; HEARST J E; ISAACS S T; LEVENSON C; SAIKI R K; CIMION
G D

Number of Countries: 015 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9001563	A	19900222	WO 89US3189	A	19890724	199011 B
AU 8941810	A	19900305				199023
US 5652096	A	19970729	US 88225725	A	19880801	199736
			US 92850244	A	19920311	
			US 94231440	A	19940420	
CA 1339979	C	19980804	CA 606605	A	19890725	199842

Priority Applications (No Type Date): US 88225725 A 19880801; US 92850244 A
19920311; US 94231440 A 19940420

Cited Patents: 4.Jnl.Ref; EP 130523; US 4599303; US 4683195; US 4683202

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9001563	A	E	52		
Designated States (National): AU JP SU					
Designated States (Regional): AT BE CH DE FR GB IT LU NL SE					
US 5652096	A		22	C12Q-001/68	Cont of application US 88225725 Cont of application US 92850244
CA 1339979	C			C12Q-001/68	

Abstract (Basic): WO 9001563 A

Descrimination method (I) between at least 2 nucleic acid base sequences in at least one nucleic acid target molecule is new, comprising at least one single stranded nucleic acid **probe** with complementary base sequence to at least one target molecule and a crosslinking agent capable of covalently linking target and **probe** molecules; any component may be labelled. Target and **probe** molecules are denatured and hybridized at distinct temperatures with the crosslinking agents which forms covalent bonds between at least one single stranded nucleic acid **probe** molecule and at least one target molecule at one or more locations of hybridization to create **probe**: target complexes which measured by identifying the label.

USE - (I) may be a medical diagnostic means of vival detection or of differentiating between heterozygote and homozygote, and in the latter, which homozygote is present.

0/12

Abstract (Equivalent): US 5652096 A

Discriminating between nucleic acid base sequences in 2 nucleic acid target molecules comprises:

(a) providing, in any order: (i) first and second nucleic acid target molecules that differ by at least 1 base in their nucleic acid base sequences, (ii) a first single stranded nucleic acid **probe** which is characterized as having a complementary base sequence to the nucleic acid base sequence of the first nucleic acid target molecules, (iii) a second single stranded nucleic acid **probe**, which is characterized as having a complementary base sequence to the nucleic acid base sequence of the second nucleic acid target molecules, and containing a covalently attached psoralen mono-adduct capable of forming covalent bonds between the second single stranded nucleic acid **probe** and the second nucleic acid target molecules, and (iv) a reaction containing means;

(b) adding, in any order, to the reaction containing means to

create a reaction mixture, the first and second nucleic acid target molecules and the first and second single stranded nucleic acid **probes**, so as to create non-covalent, completely complementary and partially complementary **probe:target** complexes under conditions between the m.pts. of the completely complementary complexes and the partially complementary complexes, allowing for the discriminatory hybridization of the single stranded nucleic acid **probes** to their respective nucleic acid target molecules;

(c) treating the reaction mixture such that the psoralen forms covalent bonds between the second single stranded nucleic acid **probe** molecules and the second nucleic acid target molecules so as to create covalent **probe:target** complexes, and

(d) subjecting the reaction mixture to a means for separating covalent **probe:target** complexes from uncrosslinked **probe** molecules and target molecules.

Dwg.0/11

Title Terms: IDENTIFY; SPECIFIC; NUCLEIC; ACID; SEQUENCE; HYBRID; CROSSLINK
; OLIGO; NUCLEOTIDE; **PROBE**

Derwent Class: B04; D16

International Patent Class (Main): C12Q-001/68

International Patent Class (Additional): C07H-021/00

File Segment: CPI

Manual Codes (CPI/A-N): B04-B02B4; B04-B04A1; B04-B04D5; B05-A04; B11-C07A;
B11-C07B; B12-K04A1; D05-H06; D05-H12

Chemical Fragment Codes (M1):

01 M423 M750 M903 N102 Q233 V500 V540 V550 V560 V570 V753

02 M423 M760 M903 N102 Q233 V600 V615

03 B115 C810 C811 D012 D013 D021 D023 D230 G010 G100 H100 H181 H401
H481 H521 H541 H542 H601 H607 H609 H684 H689 H7 H715 H721 J5 J521 L9
L942 M210 M211 M212 M240 M272 M280 M281 M282 M283 M311 M312 M320
M321 M332 M342 M344 M363 M373 M391 M423 M510 M511 M520 M530 M531
M540 M610 M781 M903 N102 P831 Q233 Q505 Q613 V743 V753 02987

Chemical Fragment Codes (M6):

04 M903 P831 Q233 Q505 Q613 R513 R514 R515 R520 R521 R533 R536 R611
R623 R625 R626 R627 R635 R639 02987

Ring Index Numbers: 02987

3/9/9 (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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007705313 **Image available**
WPI Acc No: 1988-339245/198848
XRPX Acc No: N88-257239

Medical laser **probe** for irradiating tissue - has irregularly
contoured radiation surface for diffusing incident radiation into highly
diffused pattern

Patent Assignee: SURGICAL LASER TECH (SURG-N)

Inventor: DAIKUZOONO N

Number of Countries: 007 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 292621	A	19881130	EP 87304619	A	19870526	198848 B
JP 63318934	A	19881227				198906
EP 292621	B1	19941214	EP 87304619	A	19870526	199503
US 5380318	A	19950110	US 86862114	A	19860512	199508 N
			US 87124448	A	19871124	
			US 88273304	A	19881118	
			US 92824823	A	19920122	
			US 94212653	A	19940311	
DE 3750879	G	19950126	DE 3750879	A	19870526	199509
			EP 87304619	A	19870526	

Priority Applications (No Type Date): EP 87304619 A 19870526

Cited Patents: 1.Jnl.Ref; EP 161606; GB 2154761; WO 8505262

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 292621	A	E	14		
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Designated States (Regional): AT CH DE GB LI

EP 292621	B1	E	11	A61N-005/06	
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Designated States (Regional): AT CH DE GB LI

US 5380318	A		13	A61B-017/32	Cont of application US 86862114
					CIP of application US 87124448
					Cont of application US 88273304
					Cont of application US 92824823

DE 3750879	G			A61N-005/06	Based on patent EP 292621
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Abstract (Basic): EP 292621 A

The **probe** (10) is made of sapphire, quartz, diamond or other natural or artificial ceramic laser transmissive material. The diffusing portion (12) is tapered conically and has a main body part (14) having a semi-spherical end (12a). The external surface of the end portion is frosted or roughened to form an uneven, pseudo-random contour defined by generally convex protuberances and concave recesses. The surface irregularity is of about ten to sixty microns deep and is formed by a computer-controlled grinding wheel.

USE/ADVANTAGE - For irradiating human or animal organisms with laser energy to effect hyperthermia, coagulation or haemostasis. Radiation beam is formed into broadly diffused pattern for irradiating wide surface area.

1/8

Abstract (Equivalent): EP 292621 B

A medical laser **probe** (10) for conveying laser energy from the output end of an optical laser waveguide (32) to a tissue undergoing laser treatment, the **probe** including a tip portion having a laser energy input region (38) for receiving laser energy from the optical waveguide and a laser energy radiation surface (12b), said **probe** tip comprising a laser transmissive material (12), the laser energy radiation surface terminating in a semispherical portion (12a) at the extreme end of the **probe** tip, the laser transmissive material being devoid of light diffusing inclusions, characterised in that a selected one of the laser energy input region and the radiation surface define an irregular and uneven contour defined by recesses having a depth of between 10 and 60 microns, said recesses being formed

by a grinding process for diffusing laser energy incident thereon whereby the laser radiation from the **probe** defines a broad highly diffused pattern.

Dwg.1/8

Abstract (Equivalent): US 5380318 A

The medical laser delivery appts. is for conveying laser energy from a source of laser energy to a tissue undergoing laser treatment. The delivery system comprises laser transmissive material having a laser energy input region for receiving laser energy from a laser source and a laser energy radiation surface for emitting laser energy from the delivery system. A laser energy diffuses comprises laser transmissive particles of irregular shape affixed to the laser energy radiation surface.

The particles are affixed so that laser energy emitted from the radiation surface may be coupled into the particles and irregularly refracted and reflected causing a wide laser energy radiation profile. The affixing and the particles form a tissue contact surface for directly contacting the tissue undergoing treatment. A substantial number of the particles partially extend from the affixing.

USE - Medical **probe** used for effecting hyperthermia, coagulation or haemostasis with respect to tissues of human or animal organisms by laser irradiation.

Dwg.10/10

Title Terms: MEDICAL; LASER; **PROBE**; IRRADIATE; TISSUE; IRREGULAR; CONTOUR; RADIATE; SURFACE; DIFFUSION; INCIDENT; RADIATE; HIGH; DIFFUSION; PATTERN

Derwent Class: P31; P34; S05

International Patent Class (Main): A61B-017/32; A61N-005/06

International Patent Class (Additional): A61B-017/36

File Segment: EPI; EngPI

Manual Codes (EPI/S-X): S05-A03A; S05-B

3/9/11 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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004283315

WPI Acc No: 1985-110193/198518

XRFX Acc No: N85-082691

High speed NMR **probe** - has end bearing maintaining rotor spinning
axis at precise pre-set angle regard uses of rotational speed

Patent Assignee: CHEMAGNETICS INC (CHEM-N)

Inventor: BARTUSKA V J; DALBOW D G; LEWIS D H; LEWIS R B

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4511841	A	19850416	US 82389449	A	19820617	198518 B

Priority Applications (No Type Date): US 82389449 A 19820617

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 4511841	A	12		

Abstract (Basic): US 4511841 A

The nuclear magnetic resonance spinning appts. includes an elongated cylindrical sample rotor with slotted air vanes on one tapered end, an axial stator air drive and air end bearing, and a lateral ring air bearing around the opposite end of the rotor. The lateral end bearing retains the spinning axis at a precise pre-set angle, and the slotted air vanes are designed for high speed, low pressure application.

An **adjustable** cradle support mounts the spinning appts. in a manner that allows convenient spin angle **adjustment**. An insulated **probe** is provided with a convenient access opening and door structure for access to the spinning appts. mounted in it.

ADVANTAGE - Is capable of reaching extremely high rates of speed and maintaining precise angle accuracy while using relatively inexpensive materials and relatively low spacial tolerances.

0/13

Title Terms: HIGH; SPEED; NMR; **PROBE**; END; BEARING; MAINTAIN; ROTOR;
SPIN; AXIS; PRECISION; PRE; SET; ANGLE; ROTATING; SPEED

Derwent Class: S03

International Patent Class (Additional): G01R-033/08

File Segment: EPI

Manual Codes (EPI/S-X): S03-E07

3/9/12 (Item 12 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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003587152

WPI Acc No: 1983-D5349K/198311

XRPX Acc No: N83-046460

Double-tuned single coil **probe** for NMR spectrometer - has dual
resonance circuit with LF irradiation fed to transmission line via
inductor

Patent Assignee: MONSANTO CO (MONS)

Inventor: MCKAY R A

Number of Countries: 007 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 73614	A	19830309	EP 82304397	A	19820820	198311 B
US 4446431	A	19840501	US 81295940	A	19810824	198420
CA 1193657	A	19850917				198542
EP 73614	B	19860205				198606
DE 3268959	G	19860320				198613

Priority Applications (No Type Date): US 81295940 A 19810824

Cited Patents: 1.Jnl.Ref; No-SR.Pub; US 3434043; US 3777254; US 4051429

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 73614	A	E 13		

Designated States (Regional): BE CH DE GB LI

EP 73614	B	E
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Designated States (Regional): BE CH DE GB LI

Abstract (Basic): EP 73614 A

The coil **probe** is arranged so that all the tuning elements
can be situated remotely from the sample coil outside of the magnetic
field. This permits high power levels without breakdown of components,
this is particularly advantageous when experimenting with solids. The
spectrometer (1) includes a sample coil (2) for exciting and detecting
the NMR of the sample under analysis with signals transmitted to and
from the coil.

Input excitation low frequency RF irradiation is fed through the
tuner (11) and filter (12) and the remainder of the l.f. input circuit
comprises the switch (13) connected to the wattmeter (14). From the
switch (13) the low frequency RF NMR output passes through the
amplifier (18) to the RF quadrature detectors (30).

2/2

Title Terms: DOUBLE; TUNE; SINGLE; COIL; **PROBE**; NMR; SPECTROSCOPE;
DUAL; RESONANCE; CIRCUIT; LF; IRRADIATE; FEED; TRANSMISSION; LINE;
INDUCTOR

Index Terms/Additional Words: NUCLEAR; MAGNETIC; RESONANCE

Derwent Class: S03

International Patent Class (Additional): G01N-024/04; G01R-033/08

File Segment: EPI

Manual Codes (EPI/S-X): S03-E07

3/9/13 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
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07504055 **Image available**
DOUBLE TUNING CIRCUIT AND **PROBE** FOR NUCLEAR MAGNETIC RESONANCE DEVICE

PUB. NO.: 2002-372575 A]
PUBLISHED: December 26, 2002 (20021226)
INVENTOR(s): HASEGAWA KENICHI
APPLICANT(s): JEOL LTD
APPL. NO.: 2001-317716 [JP 2001317716]
FILED: October 16, 2001 (20011016)
PRIORITY: 2001-111326 [JP 2001111326], JP (Japan), April 10, 2001
(20010410)
INTL CLASS: G01R-033/32

ABSTRACT

PROBLEM TO BE SOLVED: To provide a double tuning circuit and a **probe** for a nuclear magnetic resonance device improving resonance frequency in HF and LF resonance while improving the breakdown voltage of the double tuning circuit to allow the injection of high power.

SOLUTION: A balanced resonance circuit is used instead of a conventional coaxial resonator which is an unbalanced circuit, and an HF tuning and matching circuit is connected to an intermediate part of the balanced resonance circuit. An LF tuning capacitance element is inserted between the balanced resonance circuit and a sample coil, or at an intermediate part of the balanced resonance circuit.

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3/9/14 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
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05486472
DEVICE AND METHOD USING AUDIO SIGNAL FOR MONITORING SAMPLE-ROTATION SPEED
IN NUCLEAR MAGNETIC SPECTROMETER

PUB. NO.: 09-101272 [JP 9101272 A]
PUBLISHED: April 15, 1997 (19970415)
INVENTOR(s): RAIMA BARUTSUSHISU
APPLICANT(s): VARIAN ASSOC INC [000779] (A Non-Japanese Company or Corporation), US (United States of America)
APPL. NO.: 08-166693 [JP 96166693]
FILED: June 07, 1996 (19960607)
PRIORITY: 7-475,112 [US 475112-1995], US (United States of America),
June 07, 1995 (19950607)
INTL CLASS: [6] G01N-024/08
JAPIO CLASS: 46.2 (INSTRUMENTATION -- Testing)
JAPIO KEYWORD:R005 (PIEZOELECTRIC FERROELECTRIC SUBSTANCES)

3/9/15 (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO
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02702034
MEDICAL LASER **PROBE**

PUB. NO.: 63-318934 A]
PUBLISHED: December 27, 1988 (19881227)
INVENTOR(s): DAIKUSONO NORIO
APPLICANT(s): SAAJIKARU LASER TECHNOL INC [198723] (A Non-Japanese Company
or Corporation), US (United States of America)
APPL. NO.: 62-155238 [JP 87155238]
FILED: June 22, 1987 (19870622)
INTL CLASS: [4] A61B-017/36
JAPIO CLASS: 28.2 (SANITATION -- Medical)
JAPIO KEYWORD:R002 (LASERS); R012 (OPTICAL FIBERS)

6/9/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013858716 **Image available**

WPI Acc No: 2001-342929/200136

Related WPI Acc No: 2000-410207; 2001-432158

XRPX Acc No: N01-248360

Reusable surgical device for retrieving mass during laparoscopic surgery,
includes long **wand**, rod with handle portion lying parallel to back
end of **wand**, and flexible portion having pivot end and end
connected to handle portion

Patent Assignee: PAGEDAS A C (PAGE-I); ANCEL SURGICAL R & D INC (ANCE-N)

Inventor: PAGEDAS A C

Number of Countries: 003 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20010002437	A1	20010531	US 98197045	A	19981120	200136 B
			US 99461317	A	19991215	
			US 2000725599	A	20001129	
GB 2357248	A	20010620	GB 200016436	A	20000705	200136
CA 2311777	A1	20010615	CA 2311777	A	20000615	200140
US 6387102	B2	20020514	US 98197045	A	19981120	200239
CA 2363509	A1	20020529	CA 2363509	A	20011121	200250
GB 2371991	A	20020814	GB 200127463	A	20011116	200261

Priority Applications (No Type Date): US 2000725599 A 20001129; US 98197045
A 19981120; US 99461317 A 19991215

Abstract (Basic): US 20010002437 A1

NOVELTY - The surgical device comprises a long **wand** (12); an elongated rod (18) including a handle portion lying parallel to the back end of the **wand**, and a flexible portion (22) having a pivot end and another end connected to the handle portion; and a disengaging connector coupling the front end of the elongated **wand** to the pivot end of the flexible portion. The device further comprises a tubular collar (66) surrounding and receiving the **wand** and rod in a **sliding** manner, the **collar** being movable between two positions relative to the **wand**, the leading edge of the collar being arranged to be located at a transition point for the second end of the flexible portion.

DETAILED DESCRIPTION - A bag may be coupled to the front end of the flexible portion.

USE - For removing tissue that have been cut away during surgery especially during laparoscopic surgery.

ADVANTAGE - Allows efficient access and retrieval of tissue or other mass from a body cavity. Different size bags may be used.

DESCRIPTION OF DRAWING(S) - The drawing shows the device with the bag removed from the **wand** and the rod.

Wand (12)

Rod (18)

Flexible portion (22)

Tubular collar (66)

6/9/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013627813 **Image available**
WPI Acc No: 2001-112021/200112
XRPX Acc No: N01-082300

Chip detector for lubrication system in gear boxes, has collar in
probe which is engaged with lower housing for preventing
disengagement of threads of **probe** and housing

Patent Assignee: VIBRO METER AG (VIBR-N)
Inventor: KUHLEN H J; TAUBER T E
Number of Countries: 092 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200066937	A1	20001109	WO 2000US11950	A	20000503	200112 B
AU 200049810	A	20001117	AU 200049810	A	20000503	200112

Priority Applications (No Type Date): US 99132190 P 19990503

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 200066937	A1	E 24	F16N-029/00	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH
CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE
KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU
SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

AU 200049810 A F16N-029/00 Based on patent WO 200066937

Abstract (Basic): WO 200066937 A1

NOVELTY - A **probe** (1) has a male threaded surface (7), a magnet (16) and a collar which is slidably coupled to the **probe's** remainder. The collar slidably engages with a lower housing (3) whose female threaded surface (6) is fully engaged with the **probe's** thread. The engagement of the collar and the lower housing prevents the disengaging of the threads for securing the **probe** to the housing.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) system for locking a removable element in place;
- (b) method for installing a chip detector in a lubrication system of a machine and locking the chip detector in place

USE - Used in lubrication systems of gas turbine engines, helicopter transmissions, aircraft auxiliary drive system, gear boxes, etc., for chip detection.

ADVANTAGE - A secured and reliable quick disconnect locking mechanism for elements which are adapted for installation in and removal from another structure, is achieved by engaging the collar and the lower housing which prevents the disengaging of the engaged threads for securing the **probe** and element to the lower housing.

DESCRIPTION OF DRAWING(S) - The figure shows the cross-sectional view of the chip detector installed in host structure.

Probe (1)
Lower housing (3)
Female threaded surface (6)
Male threaded surface (7)
Magnet (16)

pp; 24 DwgNo 2/6

Title Terms: CHIP; DETECT; LUBRICATE; SYSTEM; GEAR; BOX; COLLAR;
PROBE; ENGAGE; LOWER; HOUSING; PREVENT; DISENGAGE; THREAD;
PROBE; HOUSING

Derwent Class: Q68; S01

International Patent Class (Main): F16N-029/00

File Segment: EPI; EngPI

Manual Codes (EPI/S-X): S01-J01

6/9/3 (Item 3 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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011868312 **Image available**
WPI Acc No: 1998-285222/199825
XRPX Acc No: N98-224175

Fire ant eradication bait station - has perforated tubular shaft
probe which is inserted into ant mound, and with its other end
received within a collar defined in the floor of the bait reservoir

Patent Assignee: GREEN W F (GREE-I)

Inventor: GREEN W F

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5746021	A	19980505	US 96669981	A	19960625	199825 B

Priority Applications (No Type Date): US 96669981 A 19960625

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5746021	A		7	A01M-001/20	

Abstract (Basic): US 5746021 A

The bait station has a body portion (17) defining a reservoir sized and shaped to hold the poisonous bait in it and having an open collar extending into the reservoir. The elongate **probe** (32) has an elongate shaft with a number of perforations (44) defined in it and extending through it. The shaft defines a longitudinally extending internal channel.

The upper end of the shaft is constructed and arranged to be **slidably** received within the **collar** (22) which is sized and shaped to be biased against the upper end of the shaft to frictionally hold it in position with respect to the body portion at the collar so that the internal channel of the shaft is in communication with the reservoir. When the lower end of the shaft is inserted into the ant mound, the ants may pass through the perforations and move along the internal channel into the reservoir where the ants will encounter the poisonous bait for carrying the bait back to the ant mound.

USE - For eradication of aggressive fire ants.

ADVANTAGE - The appropriate amount of poisonous bait is delivered into ant mound, and prevents an excess amount being delivered into the ground. Device may be reused and easily moved from mound to mound. Bait cannot be accessed by children and other animals.

Dwg.1,2/3

Title Terms: FIRE; ANT; ERADICATE; BAIT; STATION; PERFORATION; TUBE; SHAFT;
PROBE; INSERT; ANT; MOUND; END; RECEIVE; COLLAR; DEFINE; FLOOR;
BAIT; RESERVOIR

Derwent Class: P14

International Patent Class (Main): A01M-001/20

File Segment: EngPI

6/9/4 (Item 4 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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011834983 **Image available**
WPI Acc No: 1998-251893/199823
XRPX Acc No: N98-198900

Fixture for scanning external surface of circular components - forms
centre of rotation for component and provides adjustable robust support
having transport mechanism for eddy current test **probe**
Patent Assignee: MTU MUENCHEN GMBH (MOTU)

Inventor: BAMBERG J

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19642981	A1	19980430	DE 1042981	A	19961018	199823 B
DE 19642981	C2	19981112	DE 1042981	A	19961018	199849

Priority Applications (No Type Date): DE 1042981 A 19961018

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 19642981	A1		6 G01N-027/90	
DE 19642981	C2		G01N-027/90	

Abstract (Basic): DE 19642981 A

The fixture for scanning the external surface of highly stressed components e.g. turbine discs to detect the presence of superficial flaws uses an eddy current **probe** (9) mounted on a carrier (3,4,11,15,18) which also provides a centre of rotation for the component under examination (16). A column (11) has a **sliding collar** (3) with locking screws (1,2), a cross-bar (4) and a caliper head (18) with steel transport tape (8) on which the **probe** is mounted.

The tape is moved by a stepping motor capstan and return spool (6) via the idlers (7,10) and guides (17) referenced by the photosensor (5) so that concentric tracks of surface data are accumulated as the component is rotated through several revolutions.

USE - For non-destructive testing of precision components revealing surface flaws by eddy current excitation.

ADVANTAGE - Considerably less costly than alternatives requiring six-axis robot control of **probe**. Carrier structure is uncomplicated and remains stationary during scan which minimises noise clatter due to vibration. Position of flaws can be accurately placed using polar co-ordinates.

Dwg.1/2

Title Terms: FIX; SCAN; EXTERNAL; SURFACE; CIRCULAR; COMPONENT; FORM;
CENTRE; ROTATING; COMPONENT; ADJUST; ROBUST; SUPPORT; TRANSPORT;
MECHANISM; EDDY; CURRENT; TEST; **PROBE**

Derwent Class: S02; S03

International Patent Class (Main): G01N-027/90

File Segment: EPI

Manual Codes (EPI/S-X): S02-J09; S03-E11A

6/9/5 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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010619785 **Image available**
WPI Acc No: 1996-116738/199612
XRAM Acc No: C96-036924
XRPX Acc No: N96-097668

Device for percutaneous localisation of e.g. catheters in the body -
partic. for delivery of therapeutic agents to e.g. brain, tumours, also
used to implant e.g. cryogenic **probes**

Patent Assignee: UNIV EASTERN WASHINGTON (UYEW-N); UNIV WASHINGTON (UNIW)
Inventor: DUBACH M; NIEVERGELT Y

Number of Countries: 024 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9603087	A1	19960208	WO 95US9391	A	19950724	199612 B
AU 9531464	A	19960222	AU 9531464	A	19950724	199621
EP 774929	A1	19970528	EP 95927428	A	19950724	199726
			WO 95US9391	A	19950724	
JP 10503105	W	19980324	WO 95US9391	A	19950724	199822
			JP 96505942	A	19950724	
US 5788713	A	19980804	US 94278786	A	19940722	199838
			US 97918680	A	19970821	

Priority Applications (No Type Date): US 94278786 A 19940722; US 97918680 A
19970821

Cited Patents: US 4386602; US 4563181; US 4883474; US 5045072; US 5069226;
US 5102391; US 5154723; US 5205289; US 5257998; US 5309913; US 5389101

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9603087 A1 E 137 A61B-019/00

Designated States (National): AU CA CN JP KR MX US

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL
PT SE

AU 9531464 A A61B-019/00 Based on patent WO 9603087

EP 774929 A1 E A61B-019/00 Based on patent WO 9603087

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
NL PT SE

JP 10503105 W 128 A61B-019/00 Based on patent WO 9603087

US 5788713 A A61B-019/00 Cont of application US 94278786

Abstract (Basic): WO 9603087 A

Device for percutaneous localisation of a foreign object in a body
comprises (1) a plate-like base collar mount (16) with its distal
surface rigidly fixed to at least one perpendicular guide rail
(18a,18b), and having a channel in it through which a guide-tube
cannula (GTC,20) extends, from the proximal surface; (2) first
plate-like movable **collar** (14), **slidably** mounted on each
guide rail and rigidly fixed to a curved first extendable cannula (28),
the proximal end of which is in GTC and the distal end affixed to the
movable collar through a channel; (3) second similar collar mount (12),
fixed rigidly to a second extensible cannular or wire (24), one end of
which is in the first extendable cannula and the other end fixed to
(12) through a channel. Proximal sliding of (14) will extend the first
cannula through GTC, while similar sliding of (12) will extend the
second cannula or wire through the proximal end of the first cannula.

USE - The device is used to implant foreign objects at
predetermined locations in the body, e.g. cryogenic **probes**,
electrodes or electrical devices, but partic. catheters e.g. for
removing fluid or cellular samples or for localised delivery for drugs
to treat e.g. tumours, epilepsy, schizophrenia, Alzheimer's disease,
depression, spinal cord trauma or Parkinson's disease.

ADVANTAGE - Short- and long-term access to disease sites (including
those vascularised by several, difficulty accessible vessel) can be
obtained with minimally invasive surgical techniques which do not risk
injury to sensitive structures such as brain stem.

6/9/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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008897515 **Image available**

WPI Acc No: 1992-024784/199204

XRFX Acc No: N92-018938

Thermally-releasable-sample collector e.g. for ims analysis - has
electrical heating cartridge in **probe**, with air drawn into and
along adsorbent tube from front, open end portion

Patent Assignee: ELIAS L (ELIA-I); NAT RES COUNCIL CANADA (CANA)

Inventor: ELIAS L; LAWRENCE A H; LEMON F W

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2015971	A	19911102	CA 2015971	A	19900502	199204 B
US 5181427	A	19930126	US 91689483	A	19910423	199307

Priority Applications (No Type Date): CA 2015971 A 19900502

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5181427	A	5	G01N-001/24	

Abstract (Basic): CA 2015971 A

An adsorber tube locating collar secured and sealed to a rear end of a tubular, barrel portion, has a front, open, sample adsorbent end portion. A member releasably secures the adsorber tube within the tubular, barrel portion with a rear end portion of the tube located in the collar. The front, open, sample adsorbent end portion of the sample passage of the **probe** and terminates adjacent the blunt end of the **probe**.

Air is drawn into and along the absorbent tube from the front, open, sample adsorbent end portion. The **probe** contains an electrical heating cartridge, and the tube is releaseably secured within the barrel portion using a spring-loaded plunger.

ADVANTAGE - Provides reliable thermal release of adsorbed trace sample. (12pp Dwg.No.1,2/2

Abstract (Equivalent): US 5181427 A

The device comprises a pistol shaped casing, a blunt ended **probe** in the front end of the casing barrel, an adsorber tube locating collar in a rear end of the casing barrel, and an adsorber tube **slidably** located in the **collar** and having an open ended, sample adsorber end portion in a central portion of a gas passage extending through the **probe**.

The adsorber tube has a closed rear end and gas ports which are located by a spring loaded plunger in a first position for drawing air through the **probe** into the adsorber tube, and a second position where carrier gas passes along the adsorber tube, to entrain thermally released sample, while the sample adsorber end portion is protruding from the **probe** into the heated entry of an analyser.

ADVANTAGE - Reduced losses in vapour samples.

Dwg.1/2

Title Terms: THERMAL; RELEASE; SAMPLE; COLLECT; ANALYSE; ELECTRIC; HEAT;
CARTRIDGE; **PROBE**; AIR; DRAW; ADSORB; TUBE; FRONT; OPEN; END;
PORTION

Index Terms/Additional Words: ION; MOBILE; SPECTROSCOPE

6/9/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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004585915

WPI Acc No: 1986-089259/198614

XRPX Acc No: N86-065289

Toilet cleaning implement with removable head - has head attached to handle by lip-and-groove connection

Patent Assignee: SANI-FRESH INT INC (SANI-N); SCOTT PAPER CO (SCOP)

Inventor: BOKMILLER D J

Number of Countries: 011 Number of Patents: 009

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 176248	A	19860402				198614 B
AU 8546442	A	19860327				198620
ZA 8506566	A	19860228				198623
US 4642836	A	19870217	US 84652863	A	19840920	198709
CA 1268012	A	19900424				199022
EP 176248	B	19900808				199032
DE 3579085	G	19900913				199038
CA 1275766	C	19901106				199050
CA 1275767	C	19901106				199050

Priority Applications (No Type Date): US 84652863 A 19840920; US 84592945 A 19840323

Cited Patents: A3...8635; CH 168412; CH 252109; No-SR.Pub; US 2304961; US 4135272

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 176248	A	E	18		
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Designated States (Regional): AT BE DE FR GB IT NL

EP 176248	B				
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Designated States (Regional): AT BE DE FR GB IT NL

Abstract (Basic): EP 176248 B

The implement (10) includes a head having a rearward end provided internally with a lip and a passage which receives a handle (12). The lip mates with a groove in the handle, to removably attach the head to the handle. A flexible strap attaches a first cleaning element releasably to the head.

A collar (32) is provided about the head and has a groove to mate with an external shoulder on the head rearward end. The collar has a shoulder for abutting an annular lip on the handle. A second cleaning element is also attached to the head.

ADVANTAGE - When changing the head, contact with the soiled cleaning element is avoided. (18pp Dwg.No.3/5)

Abstract (Equivalent): EP 176248 B

A cleaning **wand** comprising: a handle (12); a head (42) having a passage (48) therein for fitting receipt of one end (16) of the handle; means (32, 44) for removable attaching said head to said handle a first cleaning element (74); means (62, 78) for removably attaching said first cleaning element to said head; and a second cleaning element (76) attached to said head (42), characterised in that the means for removably attaching the head (42) to the handle (12) comprises a lip (51) projecting radially inwardly from an internal surface of a rearward end of the passage (48) through the head, a groove (24) in said one end of said handle for resilient mating with said lip; and a **collar** (32) axially **slidable** along an external surface of said rearward end of said head, said collar (32) having a groove (36) adapted for resilient mating with a (53) on the external surface at the rearward end of said head, said collar further comprising a shoulder (38) for abutting an annular lip (26) on said handle. (9pp)

Abstract (Equivalent): US 4642836 A

The cleaning head includes a hollow sleeve to receive the cleaning

wand handle and a base to receive the cleaning element retainer. The sleeve receives an end of the handle and is secured via detents that cooperate with a radial groove in the handle. The head is locked in position by a **collar** or ferrule that **slides** axially on the outer dia. of the sleeve and engages a raised radial rib on the end of the sleeve, providing a detented lock by cooperating with an internal groove or depression on the inner dia. of the **collar**. **Sliding** the **collar** toward the base readily disengages the head from the handle.

A swab, fibre bundle, or other cleaning element is secured to a cleaning element retainer by a flexible strap. The retainer permits securement of the strap and is further provided with barbs. The barbs cooperate with a pair of slots in the head to permit a detachable snap fit between the swab retainer and head. An alternate or second cleaning element is also attached to the head.

ADVANTAGE - The swab and/or head may be readily disposed after use.

(12pp)2

Title Terms: TOILET; CLEAN; IMPLEMENT; REMOVE; HEAD; HEAD; ATTACH; HANDLE; LIP; GROOVE; CONNECT

6/9/9 (Item 9 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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002096171

WPI Acc No: 1979-B6060B/197908

Position of traction cable checking system - uses **probe** signalling
when cable derailment on balancing pulley assembly occurs

Patent Assignee: STGM (STGM-N)

Inventor: CHAVE J G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2391450	A	19790119				197908 B

Priority Applications (No Type Date): FR 7715441 A 19770518

Abstract (Basic): FR 2391450 A

The position of a cable used in a lifting or similar machine is checked w.r.t. a guide pulley to ensure that the cable is correctly positioned. A **probe** operated by pulley movement signals derailment of cable. A cable (1) is guided by pulleys (102) and guide plates (106) fixed to pulley mounting (103) prevent derailment.

A central hole (104) enables the pulleys to act as balancing assembly. One pulley (102) is mounted on cylindrical support with radial **collar** (5) to enable **sliding** w.r.t. the other pulley (102'). A shaft (7) contacts a blade spring (9) operating against pins (16) to keep pulley in contact with cable. A detector (20) signals when no load is applied to pulley thus signalling a derailment.

Title Terms: POSITION; TRACTION; CABLE; CHECK; SYSTEM; **PROBE**; SIGNAL;
CABLE; DERAILED; BALANCE; PULLEY; ASSEMBLE; OCCUR

Derwent Class: Q21; Q38; S02

International Patent Class (Additional): B61B-012/00; B66C-013/00;

G01B-007/14

File Segment: EPI; EngPI

6/9/11 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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001228420

WPI Acc No: 1975-B2196W/197505

Probe for printed circuit boards - mounted on subsidiary board in
desired spatial arrangement for testing

Patent Assignee: CIT-ALCATEL GMBH (CITC)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2224757	A	19741206				197505 B

Priority Applications (No Type Date): FR 7312001 A 19730403

Abstract (Basic): FR 2224757 A

Test or control **probes** for mounting on one board or panel for application to another printed circuit board can be made from sewing needles. The **probes** slide in a **collar** which has external threads by which it is mounted in the correct position on the test board. The end of the threads away from the **probe** point is used to anchor a spring which is fixed at its other end to the **probe**, thus providing positive contact pressure on application. The electrical connection is made to the eye of the needle. A second version has an insulated **collar** and a **sliding** upper member that limits the amount of **probe** exposed in the free state, when the test board is not applied to a second board.

7/9/1 (Item 1 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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015715342 **Image available**
WPI Acc No: 2003-777542/200373
Related WPI Acc No: 2003-744514
XRAM Acc No: C03-213890
XRPX Acc No: N03-623075

Treatment and preventing system for complications associated with
avascular necrosis of human or non-human patient, involves inserting
composition and biologically compatible support into created channel(s)
Patent Assignee: FETTO J F (FETT-I); LEALI A (LEAL-I)

Inventor: FETTO J F; LEALI A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030135214	A1	20030717	US 200250337	A	20020115	200373 B

Priority Applications (No Type Date): US 200250337 A 20020115

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20030135214	A1	15	A61B-017/56	

Abstract (Basic): US 20030135214 A1

NOVELTY - A treatment and preventing system for the complications
associated with avascular necrosis in a musculoskeletal system of a
human or non-human patient.

DETAILED DESCRIPTION - A treatment and/or preventing system for the
complications associated with avascular necrosis in a musculoskeletal
system of a human or non-human patient, comprises:

(1) identifying a biological site in the musculoskeletal system of
the patient in need of the treatment;

(2) creating channel(s) from an exterior of the biological site in
the musculoskeletal system into or distal to the site in a manner that
facilitates access to the site; and

(3) inserting into the channel a combination comprising at least:

(a) a composition; and

(b) a biologically compatible support.

The composition comprises an osteoinductive element, and/or an
osteoconductive element. The compatible support fills the channel and
provides support to the biological site in the musculoskeletal system
of the patient pending formation of new bone and vasculature at the
site.

INDEPENDENT CLAIMS are also included for:

(1) a kit for treating avascular necrosis of a human or non-human
patient, comprising sterile or sterilizable drill bit(s) for creating
the channel; composition(s) containing the osteoinductive element
and/or osteoconductive element; biologically compatible support(s); and
device(s) adapted for insertion of the biologically compatible support
into the channel; and

(2) a screw made from bone, comprising a cylinder of bone, with or
without taper, of a length of 25-35 mm and a width of 5-10 mm.

ACTIVITY - None given.

MECHANISM OF ACTION - None given.

USE - The system is used for treating and/or preventing the
complications associated with avascular necrosis in a musculoskeletal
system of a human or non-human patient.

ADVANTAGE - The inventive system prevents and/or reduces the
complications associated with osteonecrosis.

DESCRIPTION OF DRAWING(S) - The figure shows a picture of a
cortical bone screw.

pp; 15 DwgNo 6/6

Technology Focus:

TECHNOLOGY FOCUS - INSTRUMENTATION AND TESTING - Preferred System:

The site exhibiting avascular necrosis in the musculoskeletal system is

located within the head of the femur, in the femoral or tibial condyles of epicondyles, the malleolus of the tibia or fibula, the head or tubercles of the humerus, or either terminus of the radius or ulna, talus, carpal navicular. The bone is partially or completely demineralized.

Preferred Component: The biologically compatible support comprises a biologically compatible synthetic material, a biologically synthetic metal, a cortical shaft of bone, a cancellous shaft of bone, and a shaft of bone that comprises both cortical bone and cancellous bone. It is in the form of a plug that fills the channel.

The plug comprises threading over a portion of its circumference such that the plug maybe torqued into place within the channel; and an engagement mechanism for engagement with a torque delivery mechanism.

The drill bit comprises step(s) in its diameter, including in its cutting edge and optionally including an adjustable **collar** that may be **slid** axially along the drill bit.

The kit further includes a tap for inscribing threads within the channel; guidewire(s); a delivery device for inserting the composition into the channel; and an instrument tray.

The drill bit, the tap and the insertion device are cannulated, respectively. The delivery device comprises a tamp and/or a syringe.

The cortical bone support is at least partially demineralized.

The screw comprises a thread inscribed in the circumference of the screw over a portion of the circumference. The screw is cannulated. It has been soaked or infused with growth factors, BMP, and/or bone progenitor cells.

Preferred Property: The drill bit and the tap have a diameter of 5-10 mm. The cortical bone support is of a length of 25-35 mm.

PHARMACEUTICALS - Preferred Components: The composition further comprises angiogenic element(s); and a biologically compatible carrier matrix.

The osteoinductive element comprises demineralized bone matrix (DBM), bone morphogenetic protein (BMP), cartilage derived morphogenetic protein (CDMP), bone progenitor cells, and/or a growth factor. The osteoconductive element comprises cortical bone chips, cancellous bone chips, chips having both a cortical and a cancellous nature, mixtures of cortical bone and cancellous bone chips, bioactive ceramic, a calcium salt composition, and/or a phosphate salt composition.

Preferred Material: The carrier matrix comprises gelatin, hyaluronic acid, glycosaminoglycan, glycerol, alginate, methacrylate, and/or methyl methacrylate.

POLYMERS - Preferred Material: The carrier matrix comprises gelatin, hyaluronic acid, glycosaminoglycan, glycerol, alginate, methacrylate, and/or methyl methacrylate

Extension Abstract:

EXAMPLE - A 47-year old while male with history of diabetes mellitus, hypercholesterolemia and avascular necrosis of his left hip for which he had a total hip replacement two years earlier, presented with right groin pain and painful range of motion. A **magnetic resonance** imaging study showed evidence of osteonecrosis of the right hip in pre-collapse stage (Ficat II) with a compromised area of 25% of the femoral head. The patient underwent a biological and structural augmentation procedure. The surgery was well tolerated and there were no intraoperative complications. Postoperative films showed adequate placement of both bone screws. The patient was discharged from the hospital the following day and was maintained on protected weight bearing for 6 weeks. One month after surgery, the patient was clinically asymptomatic exhibiting painless full range of motion of the hip. A follow-up x-ray study showed both screws in place with excellent bone response to the demineralized bone matrix material and cortico-cancellous chips allografts.

Title Terms: TREAT; PREVENT; SYSTEM; COMPLICATED; ASSOCIATE; NECROSIS; HUMAN; NON; HUMAN; PATIENT; INSERT; COMPOSITION; BIOLOGICAL; COMPATIBLE; SUPPORT; CHANNEL

Derwent Class: A96; B07; D22; P31

International Patent Class (Main): A61B-017/56

2/9/1

DIALOG(R)File 342:Derwent Patents Citation Indx

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03139388 WPI Acc No: 98-362074/31

Variable external capacitor for an NMR probe - has a housing containing a movable internal and fixed external member and defines a passageway for insertion of adjustment tools etc.

Patent Assignee: (VARI) VARIAN ASSOC INC

Author (Inventor): FINNIGAN J P

Patent Family:

Patent No	Kind Date	Examiner Field of Search
US 5768089	A 980616 (BASIC)	324/207.16; 324/207.24; 324/238; 324/318; 324/322; 324/662; 324/678; 324/725; 333/219; 333/227; 333/235; 333/245; 333/248; 361/277; 361/283.2; 361/283.3; 361/287; 361/292; 361/296; 361/298.1; 361/299.1; 361/299.2; 361/299.4

EP 930511 A2 990721

Derwent Week (Basic): 9831

Priority Data: US 781422 (970110)

Applications: US 781422 (970110); EP 98300267 (980115)

Designated States

(Regional): AL; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT;

LU; LV; MC; MK; NL; PT; RO; SE; SI

Derwent Class: A85; L03; V01

Int Pat Class: G01R-033/36

Number of Patents: 002

Number of Countries: 025

Number of Cited Patents: 012

Number of Cited Literature References: 000

Number of Citing Patents: 000

CITED PATENTS

Family Member	Cited Patent	Cat	WPI Acc No	Assignee/Inventor
By Examiner:				
EP 930511	A DE 4239041	A X	93-176840/22 (VARI)	VARIAN ASSOC INC/ BEHBIN A
EP 930511	A EP 165741	A A	86-001294/01 (VARI)	VARIAN ASSOC INC/ CODRINGTON R S
EP 930511	A EP 223284	A X	87-073414/11 (ROTH/)	ROTHKEGEL K
EP 930511	A EP 401967	A A	90-369990/50 (OXLY)	OXLEY DEV CO LTD/ ARMISTEAD R G; ARMISTEAD T
EP 930511	A FR 2092998	A X		
EP 930511	A US 4851961	A A	89-270635/37 (FUNK/)	FUNK A L/FUNK A L
EP 930511	A US 4996482	A A	91-080804/11 (NIDS)	JEOL CO LTD/ FUJITO T
US 5768089	A US 4490772	A	85-011990/02 (BLIC/)	BLICKSTEIN M J/ BLICKSTEIN M J
US 5768089	A US 5206785	A	92-156637/19 (WACO-)	WACOM CO LTD
US 5768089	A US 5229911	A	93-242704/30 (VOLT-)	VOLTRONICS CORP/ DITLYA D
US 5768089	A US 5530353	A	95-195691/26 (OXFO-)	OXFORD ANALYTICAL INSTR LTD/BLANZ M
US 5768089	A US 5557495	A	96-433244/43 (HARO)	HARRIS CORP/ BAILEY D C; BELCHER D K

2/9/2

DIALOG(R)File 342:Derwent Patents Citation Indx
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02948887 WPI Acc No: 97-299627/28

Satellite radio receiver tuner - has bandpass filter, frequency conversion section and two tuning circuits which are connected in series

Patent Assignee: (ALPS) ALPS ELECTRIC CO LTD

Author (Inventor): KINUGAWA T

Patent Family:

Patent No	Kind Date	Examiner Field of Search
DE 19650096	A1 970605	(BASIC) H03H-007/2; H03J-003/2; H04B-001/6
DE 19650096	C2 030814	H03H-007/12; H03J-003/02; H03J-003/26; H04B-001/26
JP 9162766	A 970620	
KR 201479	B1 990615	
KR 97055688	A 970731	
TW 351874	A 990201	
US 5963842	A 991005	333/174; 333/176; 334/15; 348/731; 455/101.1; 455/190.1; 455/197.1; 455/266; 455/286; 455/3.2; 455/302; 455/307; 455/339; 455/340

Derwent Week (Basic): 9728

Priority Data: JP 95315314 (951204)

Applications: JP 95315314 (951204); TW 96114467 (961123); US 758133 (961125); DE 19650096 (961203); KR 9661346 (961203)

Derwent Class: U25; W02; W03

Int Pat Class: H03H-007/12; H03J-003/02; H03J-003/26; H04B-001/06; H04B-001/10; H04B-001/18; H04B-001/26

Number of Patents: 007

Number of Countries: 005

Number of Cited Patents: 025

Number of Cited Literature References: 000

Number of Citing Patents: 005

CITED PATENTS

Family Member	Cited Patent	Cat	WPI Acc No	Assignee/Inventor
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By Examiner:

DE 19650096	C2 DE 3416225	A1	85-100597/17	(SALO-) SALORA OY/ MUTOJARVI S
DE 19650096	C2 US 431909			
DE 19650096	C2 US 4662001	A	88-056054/08	(ZENI) ZENITH ELECTRONICS CORP/CURZ M S; VAUGHTER H P
DE 19650096	C2 US 4718117	A	88-021378/03	(CAPE-) CAPETRONIC BSR LTD/MA J Y; HOUSTON A C
DE 19650096	C2 US 4939789	A	88-207184/30	(MATU) MATSUSHITA ELEC IND CO LTD/SAKASHITA S; OZEKI H; KANNO I
DE 19650096	C2 US 5159711	A	91-252903/34	(ASTE-) ASTEC INT LTD/MA J Y; CHEONG C W
US 5963842	A JP 61087408	A	86-153280/24	(DXAN-) DX ANTENNA KK /ARMSTRONG
US 5963842	A US 2308258	A		
US 5963842	A US 4601062	A	86-204496/31	(RADC) RCA CORP/HETTIGER J
US 5963842	A US 4614925	A	85-020407/04	(MATU) MATSUSHITA ELEC IND CO LTD/KANE J
US 5963842	A US 4663694	A	87-143353/20	(MURA) MURATA MFG CO LTD /SAKAMOTO Y
US 5963842	A US 4696055	A	86-163423/26	(PHIG) PHILIPS ELTRN & ASSOC IND LTD/MARSHALL C B
US 5963842	A US 4835608	A	89-192412/26	(ZENI) ZENITH RADIO CORP /LACHIW M J; STRAMMELLO P
US 5963842	A US 4905306	A	89-336821/46	(RADC) RCA LICENSING CORP
US 5963842	A US 4996482	A	91-080804/11	(NIDS) JEOL CO LTD/ FUJITO T
US 5963842	A US 5021757	A	90-172846/23	(FUJI) FUJISAWA PHARM CO

LTD; (FUIT) FUJITSU LTD/KOBATYASHI F; UMINO I
 US 5963842 A US 5060297 A 91-332826/45 (MAJY/) MA J Y/MA J Y;
 HOUSTON B
 US 5963842 A US 5121078 A 91-119474/17 (ETFR) ETAT FR MIN PTT;
 (TELG) TELEDIFFUSION DE FRANCE/HAVOT H; DUTERTRE
 Y
 US 5963842 A US 5222106 A 91-344549/47 (KOKU) KOKUSAI DENSHIN
 DENWA CO LTD
 US 5963842 A US 5276398 A 93-405979/50 (COND-) CONDUCTUS INC/
 WITHERS R S; LIANG G
 US 5963842 A US 5377272 A 94-067278/09 (THOH) THOMSON CONSUMER
 ELECTRONICS INC/ALBEAN D L
 US 5963842 A US 5428828 A 94-067277/09 (THOH) THOMSON CONSUMER
 ELECTRONICS INC/PUGEL M A; LEHMANN W L
 US 5963842 A US 5493261 A 92-268896/32 (UBEI) UBE IND LTD/KITOH
 R; FUJIYAMA Y; ONO T; TAKASUGI A; HAYASHI S
 US 5963842 A US 5577270 A 93-048987/06 (SONY) SONY CORP/SAKAI Y
 US 5963842 A US 5715531 A 98-130207/12 (NEXT-) NEXTLEVEL SYSTEMS
 TAIWAN LTD/LIU H; LU T; LIANG R

CITING PATENTS

Family Member By Examiner:	Citing Patent Cat	WPI Acc No	Assignee/Inventor
US 5963842 A	US 6208388 B1	02-112796/12	(LUCE) LUCENT TECHNOLOGIES INC/FARLEIGH S E
US 5963842 A	US 6504443 B1	03-327815/32	(NIDE) NEC AMERICA INC/ EGUIZABAL A L
US 5963842 A	US 6573949 B1	01-211680/22	(ALPS) ALPS ELECTRIC CORP
US 5963842 A	US 6731347 B1	01-080105/02	(SONY) SONY ELECTRONICS INC/TAKANO H; KOBAYASHI S; SUZUKI K; SATO M; KIMURA Y
US 5963842 A	US 6738612 B1	02-271280/32	(IBMC) INT BUSINESS MACHINES CORP/IMBORNONE J; MOURANT J

2/9/3

DIALOG(R)File 342:Derwent Patents Citation Indx
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00836001 WPI Acc No: 91-232525/32

Double tuned single coil sampling head for NMR measurements - allows
transmission line to be shortened if capacitors are includes in lower end
of inner conductor

Patent Assignee: (BRUK-) BRUKER ANALYTISCHE MESSTECHNIK

Author (Inventor): ZEIGER H

Patent Family:

Patent No	Kind	Date	Examiner	Field of Search
GB 2240629	A	910807	(BASIC)	
DE 4002160	A	910808		
DE 4002160	C2	930311		
GB 2240629	B	940518		
US 5229724	A	930720		

Derwent Week (Basic): 9132

Priority Data: DE 4002160 (900125)

Applications: DE 4002160 (900125); GB 91857 (910115); GB 918573 (910115);
US 642626 (910117)

Derwent Class: S01; S03; V02

Int Pat Class: G01N-024/08; G01N-024/12; G01R-033/36; G01R-033/62

Number of Patents: 005

Number of Countries: 003

Number of Cited Patents: 007

Number of Cited Literature References: 003

Number of Citing Patents: 017

CITED PATENTS

Family Member	Cited Patent	Cat	WPI Acc No	Assignee/Inventor
By Examiner:				
US 5229724	A	DE 3634030	88-106384/16 (SIEI)	SIEMENS AG/ KESTLER J
US 5229724	A	US 4446431	83-D5349K/11 (MONS)	MONSANTO CO/MCKAY R A
US 5229724	A	US 4728896	86-037215/06 (OXFO-)	OXFORD RES SYST LTD/BENDALL M R; MCKENDRY J M; RAYNOR J
US 5229724	A	US 4801885	88-093041/14 (SIEI)	SIEMENS AG/ MEISSNER R; KESS H
US 5229724	A	US 4952879	89-317585/44 (PHIG)	PHILIPS GLOEILAMPENFAB NV/VANVALLAS J J; BERGMAN A H
US 5229724	A	US 4996482	91-080804/11 (NIDS)	JEOL CO LTD/ FUJITO T
US 5229724	A	US 5038105	91-252204/34 (SPEC-)	SPECTROSCOPY IMAGIN/CODRINGTON R S; RATH A R

CITED LITERATURE REFERENCES

Family Member	Cat	Citation
By Examiner:		
US 5229724	A	Review of Scientific Instruments, vol. 47, No. 12, Dec. 1976, pp. 1486 to 1488, "Single coil probe with transmission-line tuning for nuclear magnetic double resonance"-Author V. R. Cross, R. K. Hester, and J. S. Waugh.
US 5229724	A	Journal of Magnetic Resonance 43 (1981), pp. 339 to 416 "A Multinuclear Double-Tuned Probe for Applications with Solids or Liquids Utilizing Lumped Tuning Elements" Authors: F. David Doty, Ruth R. Inners, and Paul D. Ellis.
US 5229724	A	Review of Scientific Instruments, vol. 51 (7), Jul. 1980, pp. 887 to 890 "A single-coil triple resonance probe for NMR experiments" Authors: S. Kan, M. Fan, and J. Courtieu.

CITING PATENTS

Family Member	Citing Patent	Cat	WPI Acc No	Assignee/Inventor
By Examiner:				
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DE 4002160	C2 DE 10019990	C2	02-076095/12	(BRUK-) BRUKER ANALYTIK GMBH/ENGELKE F
DE 4002160	C2 DE 19833350	C1	00-183821/12	(BRUK-) BRUKER ANALYTIK GMBH/ZEIGER H
DE 4002160	A1 DE 19840622	A1	00-560151/52	(BRUK-) BRUKER ANALYTIK GMBH/WETZEL N
DE 4002160	A1 DE 19840622	C2	00-560151/52	(BRUK-) BRUKER ANALYTIK GMBH/WETZEL N
DE 4002160	A1 DE 19923294	C1	01-113277/12	(BRUK-) BRUKER ANALYTIK GMBH/ZEIGER H
US 5229724	A US 5424645	A	95-200490/21	(DOTY-) DOTY SCI INC/DOTY F D
US 5229724	A US 5675254	A	97-502471/41	(UNII) UNIV ILLINOIS FOUND/FIAT D; DOLINSEK J
US 5229724	A US 5707875	A	97-002708/01	(HITA) HITACHI LTD
US 5229724	A US 6278277	B1	00-183821/12	(BRUK-) BRUKER ANALYTIK GMBH/ZEIGER H
US 5229724	A US 6307371	B1	01-113277/12	(BRUK-) BRUKER ANALYTIK GMBH/ZEIGER H
US 5229724	A US 6313631	B1	02-024919/02	(UNII) UNIV ILLINOIS FOUND/FIAT D; DOLINSEK J
US 5229724	A US 6380742	B1	03-677581/62	(VARI) VARIAN INC/ STRINGER J; BRONNIMANN C E
DE 4002160	A US 6452392	B1	00-560151/52	(BRUK-) BRUKER ANALYTIK GMBH/WETZEL N
US 5229724	A US 6452392	B1	00-560151/52	(BRUK-) BRUKER ANALYTIK GMBH/WETZEL N
US 5229724	A WO 9514240	A A	95-200490/21	(DOTY-) DOTY SCI INC/DOTY F D
US 5229724	A WO 9514240	A1 A	95-200490/21	(DOTY-) DOTY SCI INC/DOTY

3/9/1
DIALOG(R)File 350:Derwent WPIX
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012850310 **Image available**
WPI Acc No: 2000-022142/200002
XRPX Acc No: N00-016392

Quarter wave circuit switch for nuclear magnetic resonance spectrometry

Patent Assignee: VARIAN INC (VARI)

Inventor: FINNIGAN J P; MUNSELL A W; RICE R G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5982179	A	19991109	US 97869268	A	19970604	200002 B

Priority Applications (No Type Date): US 97869268 A 19970604

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5982179	A	17	G01V-003/00	

Abstract (Basic): US 5982179 A

NOVELTY - A spring washer (26) is sandwiched between a piston (22) and insert plug (28) provided in cavities (38,48), respectively. A pair of threaded contacts (18) provided in another cavity (14), is spaced apart by a spacer (20). A spring clip (30) mounted on a mounting screw (32) provided in cavity (50), is assembled between the piston and threaded contacts.

USE - For nuclear magnetic resonance spectrometry.

ADVANTAGE - Performs single and double tuning using single nuclear magnetic resonance probe, reliably. The use of piston and washers not only creates firm and precise electrical contact point between the capacitor stick and piston, but also prevents capacitor stick from becoming unthreaded, effectively.

DESCRIPTION OF DRAWING(S) - The figure shows the partial cross-sectional view of quarter wave circuit switch.

Cavities (14,38,48,50)

Threaded contacts (18)

Spacer (20)

Piston (22)

Spring washer (26)

Insert plug (28)

Spring clip (30)

Mounting screw (32)

pp; 17 DwgNo 1/22

3/9/2
DIALOG(R)File 350:Derwent WPIX
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008576771 **Image available**
WPI Acc No: 1991-080804/199111
XRPX Acc No: N91-062402

Capacitor stick for NMR probe - has compensating coil between base
electrode and chip capacitor

Patent Assignee: JEOL CO LTD (NIDS)

Inventor: FUJITO T

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4996482	A	19910226	US 89410092	A	19890920	199111 B

Priority Applications (No Type Date): JP 88U124247 U 19880922

Abstract (Basic): US 4996482 A

The capacitor stick comprises a lower base electrode (12) fitted to the tip of stick electrode (11) and an upper base electrode (14) installed so that an insulating rod (13) is sandwiched between the two base electrodes. To the upper base electrode, one of the electrodes on chip capacitor (15) is soldered. The upper base electrode (14) and the lower base electrode (12) are connected by a compensating coil (18). When the capacitor stick is inserted into the circuit, the other electrode (16) on chip capacitor (15) comes into contact with the receiving electrode (17) in the circuit side and the lower base electrode (12) is grounded.

The inductance L(s) of the compensating coil and the a capacitance C of the chip capacitor are set so that series resonance is caused at the decoupling frequency f(1). By so setting, the impedance of the capacitor stick regarding the coupling frequency f(1) is made zero by series resonance. Therefore, if the capacitor stick is used in a circuit point B is grounded with regard to the frequency f(1) both by the trap circuit (10) and by the capacitor stick. Accordingly, it is possible to completely prevent the leakage of the decoupling high frequency signal of frequency f(1) to the observation side input/outupt terminal (2).

ADVANTAGE - Can eliminate influence of resonance based on self-inductance of chip capacitor. (Dwg.No.1,5/6)

Title Terms: CAPACITOR; STICK; NMR; PROBE; COMPENSATE; COIL; BASE;
ELECTRODE; CHIP; CAPACITOR

Derwent Class: S01; S03

International Patent Class (Additional): G01R-033/20

File Segment: EPI

Manual Codes (EPI/S-X): S01-E; S01-H03; S01-H05; S03-E07

10/624,744

Sept 2nd 2004

02sep04 14:14:04 User259284 Session D2885.11

File 342:Derwent Patents Citation Indx 1978-04/200454
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NPL STIC Search
See attached Search History
Databases & Results

Set	Items	Description
S1	8696	RF=CROSS
S2	1409	S1 AND RF=1976
S3	137	S2 AND (RF=PROBE OR WAND???? OR PROBE????)
S4	7	S3 AND RF=TUNING
S5	592	RF=KAN
S6	183	S5 AND RF=1980
S7	8	S6 AND RF=TRIPLE
S8	38	S6 AND RF=PROBE??
S9	0	S6 AND RF=WAND??

? s s4 or s7

7 S4

8 S7

S10 13 S4 OR S7

? map pn

4 Select Statement(s), 39 Search Term(s)
Serial#SD718

1 SearchSaves, 39 Search Term(s)

? b 350 347 344;ex

02sep04 14:16:38 User259284 Session D2885.12

SYSTEM:OS - DIALOG OneSearch

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200456

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*File 350: For more current information, include File 331 in your search.

Enter HELP NEWS 331 for details.

File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)

(c) 2004 JPO & JAPIO

File 344:Chinese Patents Abs Aug 1985-2004/May

(c) 2004 European Patent Office

Set	Items	Description
S1	16	S1:S3
S2	0	S1 AND COLLAR???????
S3	0	S1 AND SLID?????????
S4	0	S1 AND (TUBE?????? OR TUBUL???????? OR HOLLOW?????????)
S5	1	S1 AND CONTACT?????????

File 342:Derwent Patents Citation Indx 1978-04/200454
(c) 2004 Thomson Derwent

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	1	PN=US 5982179
	2	PN=US 4996482 + PN=US 5982179
S1	2	Serial: SD716
? map pn/ct=		

1 Select Statement(s), 2 Search Term(s)
Serial#SD717

1 SearchSaves, 2 Search Term(s)
? ex

Executing SD717		
	3	CT=US 4996482
	0	CT=US 5982179
	3	CT=US 4996482 + CT=US 5982179
S2	3	Serial: SD717
		F D

Set	Items	Description
S1	2	PN=US 4996482 + PN=US 5982179
S2	3	CT=US 4996482 + CT=US 5982179

10/624,744

Sept 2nd 2004

2/9/1

DIALOG(R) File 342:Derwent Patents Citation Indx
(c) 2004 Thomson Derwent. All rts. reserv.

03139388 WPI Acc No: 98-362074/31

Variable external capacitor for an NMR probe - has a housing containing a movable internal and fixed external member and defines a passageway for insertion of adjustment tools etc.

Patent Assignee: (VARI) VARIAN ASSOC INC

Author (Inventor): FINNIGAN J P

Patent Family:

Patent No	Kind Date	Examiner Field of Search
US 5768089	A	980616 (BASIC) 324/207.16; 324/207.24; 324/238; 324/318; 324/322; 324/662; 324/678; 324/725; 333/219; 333/227; 333/235; 333/245; 333/248; 361/277; 361/283.2; 361/283.3; 361/287; 361/292; 361/296; 361/298.1; 361/299.1; 361/299.2; 361/299.4

EP 930511 A2 990721

Derwent Week (Basic): 9831

Priority Data: US 781422 (970110)

Applications: US 781422 (970110); EP 98300267 (980115)

Designated States

(Regional): AL; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT;

LU; LV; MC; MK; NL; PT; RO; SE; SI

Derwent Class: A85; L03; V01

Int Pat Class: G01R-033/36

Number of Patents: 002

Number of Countries: 025

Number of Cited Patents: 012

Number of Cited Literature References: 000

Number of Citing Patents: 000

CITED PATENTS

Family Member	Cited Patent	Cat	WPI Acc No	Assignee/Inventor
By Examiner:				
EP 930511	A DE 4239041	A X	93-176840/22 (VARI)	VARIAN ASSOC INC/ BEHBIN A
EP 930511	A EP 165741	A A	86-001294/01 (VARI)	VARIAN ASSOC INC/ CODRINGTON R S
EP 930511	A EP 223284	A X	87-073414/11 (ROTH/)	ROTHKEGEL K
EP 930511	A EP 401967	A A	90-369990/50 (OXLY)	OXLEY DEV CO LTD/ ARMISTEAD R G; ARMISTEAD T
EP 930511	A FR 2092998	A X		
EP 930511	A US 4851961	A A	89-270635/37 (FUNK/)	FUNK A L/FUNK A L
EP 930511	A US 4996482	A A	91-080804/11 (NIDS)	JEOL CO LTD/ FUJITO T
US 5768089	A US 4490772	A	85-011990/02 (BLIC/)	BLICKSTEIN M J/ BLICKSTEIN M J
US 5768089	A US 5206785	A	92-156637/19 (WACO-)	WACOM CO LTD
US 5768089	A US 5229911	A	93-242704/30 (VOLT-)	VOLTRONICS CORP/ DITLYA D
US 5768089	A US 5530353	A	95-195691/26 (OXFO-)	OXFORD ANALYTICAL INSTR LTD/BLANZ M
US 5768089	A US 5557495	A	96-433244/43 (HARO)	HARRIS CORP/ BAILEY D C; BELCHER D K

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2/9/2

DIALOG(R) File 342:Derwent Patents Citation Indx
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02948887 WPI Acc No: 97-299627/28

Satellite radio receiver tuner - has bandpass filter, frequency conversion
section and two tuning circuits which are connected in series

Patent Assignee: (ALPS) ALPS ELECTRIC CO LTD

Author (Inventor): KINUGAWA T

Patent Family:

Patent No	Kind	Date	Examiner	Field of Search
DE 19650096	A1	970605	(BASIC)	H03H-007/2; H03J-003/2; H04B-001/6
DE 19650096	C2	030814	H03H-007/12; H03J-003/02; H03J-003/26;	H04B-001/26
JP 9162766	A	970620		
KR 201479	B1	990615		
KR 97055688	A	970731		
TW 351874	A	990201		
US 5963842	A	991005	333/174; 333/176; 334/15; 348/731; 455/101.1;	455/190.1; 455/197.1; 455/266; 455/286;
			455/3.2; 455/302; 455/307; 455/339; 455/340	

Derwent Week (Basic): 9728

Priority Data: JP 95315314 (951204)

Applications: JP 95315314 (951204); TW 96114467 (961123); US 758133 (961125); DE 19650096 (961203); KR 9661346 (961203)

Derwent Class: U25; W02; W03

Int Pat Class: H03H-007/12; H03J-003/02; H03J-003/26; H04B-001/06;
H04B-001/10; H04B-001/18; H04B-001/26

Number of Patents: 007

Number of Countries: 005

Number of Cited Patents: 025

Number of Cited Literature References: 000

Number of Citing Patents: 005

CITED PATENTS

Family Member	Cited Patent	Cat	WPI Acc No	Assignee/Inventor
By Examiner:				
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DE 19650096	C2 US 431909			
DE 19650096	C2 US 4662001	A	88-056054/08	(ZENI) ZENITH ELECTRONICS CORP/CURZ M S; VAUGHTER H P
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DE 19650096	C2 US 4939789	A	88-207184/30	(MATU) MATSUSHITA ELEC IND CO LTD/SAKASHITA S; OZEKI H; KANNO I
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US 5963842	A US 4614925	A	85-020407/04	(MATU) MATSUSHITA ELEC IND CO LTD/KANE J
US 5963842	A US 4663694	A	87-143353/20	(MURA) MURATA MFG CO LTD /SAKAMOTO Y
US 5963842	A US 4696055	A	86-163423/26	(PHIG) PHILIPS ELTRN & ASSOC IND LTD/MARSHALL C B
US 5963842	A US 4835608	A	89-192412/26	(ZENI) ZENITH RADIO CORP /LACHIW M J; STRAMMELLO P
US 5963842	A US 4905306	A	89-336821/46	(RADC) RCA LICENSING CORP
US 5963842	A US 4996482	A	91-080804/11	(NIDS) JEOL CO LTD/ FUJITO T
US 5963842	A US 5021757	A	90-172846/23	(FUJI) FUJISAWA PHARM CO

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US 5963842 A US 5060297 A LTD; (FUIT) FUJITSU LTD/KOBATYASHI F; UMINO I
 91-332826/45 (MAJY/) MA J Y/MA J Y;
 HOUSTON B
 US 5963842 A US 5121078 A 91-119474/17 (ETFR) ETAT FR MIN PTT;
 (TELG) TELEDIFFUSION DE FRANCE/HAVOT H; DUTERTRE
 Y
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 WITHERS R S; LIANG G
 US 5963842 A US 5377272 A 94-067278/09 (THOH) THOMSON CONSUMER
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 ELECTRONICS INC/PUGEL M A; LEHMANN W L
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 R; FUJIYAMA Y; ONO T; TAKASUGI A; HAYASHI S
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 US 5963842 A US 5715531 A 98-130207/12 (NEXT-) NEXTLEVEL SYSTEMS
 TAIWAN LTD/LIU H; LU T; LIANG R

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Family Member By Examiner:	Citing Patent Cat	WPI Acc No	Assignee/Inventor
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US 5963842 A	US 6504443 B1	03-327815/32	(NIDE) NEC AMERICA INC/ EGUIZABAL A L
US 5963842 A	US 6573949 B1	01-211680/22	(ALPS) ALPS ELECTRIC CORP
US 5963842 A	US 6731347 B1	01-080105/02	(SONY) SONY ELECTRONICS INC/TAKANO H; KOBAYASHI S; SUZUKI K; SATO M; KIMURA Y
US 5963842 A	US 6738612 B1	02-271280/32	(IBMC) INT BUSINESS MACHINES CORP/IMBORNONE J; MOURANT J

16/29,744

9-2-2004

2/9/3

DIALOG(R)File 342:Derwent Patents Citation Indx
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00836001 WPI Acc No: 91-232525/32

Double tuned single coil sampling head for NMR measurements - allows
transmission line to be shortened if capacitors are includes in lower end
of inner conductor

Patent Assignee: (BRUK-) BRUKER ANALYTISCHE MESSTECHNIK

Author (Inventor): ZEIGER H

Patent Family:

Patent No	Kind	Date	Examiner	Field of Search
GB 2240629	A	910807	(BASIC)	
DE 4002160	A	910808		
DE 4002160	C2	930311		
GB 2240629	B	940518		
US 5229724	A	930720		

Derwent Week (Basic): 9132

Priority Data: DE 4002160 (900125)

Applications: DE 4002160 (900125); GB 91857 (910115); GB 918573 (910115);
US 642626 (910117)

Derwent Class: S01; S03; V02

Int Pat Class: G01N-024/08; G01N-024/12; G01R-033/36; G01R-033/62

Number of Patents: 005

Number of Countries: 003

Number of Cited Patents: 007

Number of Cited Literature References: 003

Number of Citing Patents: 017

CITED PATENTS

Family Member	Cited Patent	Cat	WPI Acc No	Assignee/Inventor
By Examiner:				
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US 5229724	A US 4446431	A	83-D5349K/11 (MONS)	MONSANTO CO/MCKAY R A
US 5229724	A US 4728896	A	86-037215/06 (OXFO-)	OXFORD RES SYST LTD/BENDALL M R; MCKENDRY J M; RAYNOR J
US 5229724	A US 4801885	A	88-093041/14 (SIEI)	SIEMENS AG/ MEISSNER R; KESS H
US 5229724	A US 4952879	A	89-317585/44 (PHIG)	PHILIPS GLOEILAMPENFAB NV/VANVALLAS J J; BERGMAN A H
US 5229724	A US 4996482	A	91-080804/11 (NIDS)	JEOL CO LTD/ FUJITO T
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US 5229724	A	Journal of Magnetic Resonance 43 (1981), pp. 339 to 416 "A Multinuclear Double-Tuned Probe for Applications with Solids or Liquids Utilizing Lumped Tuning Elements" Authors: F. David Doty, Ruth R. Inners, and Paul D. Ellis.
US 5229724	A	Review of Scientific Instruments, vol. 51 (7), Jul. 1980, pp. 887 to 890 "A single-coil triple resonance probe for NMR experiments" Authors: S. Kan, M. Fan, and J. Courtieu.

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Family Member	Citing Patent	Cat	WPI Acc No	Assignee/Inventor
By Examiner:				
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DE 4002160	C2 DE 10019990	C2	02-076095/12	(BRUK-) BRUKER ANALYTIK GMBH/ENGELKE F
DE 4002160	C2 DE 19833350	C1	00-183821/12	(BRUK-) BRUKER ANALYTIK GMBH/ZEIGER H
DE 4002160	A1 DE 19840622	A1	00-560151/52	(BRUK-) BRUKER ANALYTIK GMBH/WETZEL N
DE 4002160	A1 DE 19840622	C2	00-560151/52	(BRUK-) BRUKER ANALYTIK GMBH/WETZEL N
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US 5229724	A US 5424645	A	95-200490/21	(DOTY-) DOTY SCI INC/DOTY F D
US 5229724	A US 5675254	A	97-502471/41	(UNII) UNIV ILLINOIS FOUND/FIAT D; DOLINSEK J
US 5229724	A US 5707875	A	97-002708/01	(HITA) HITACHI LTD
US 5229724	A US 6278277	B1	00-183821/12	(BRUK-) BRUKER ANALYTIK GMBH/ZEIGER H
US 5229724	A US 6307371	B1	01-113277/12	(BRUK-) BRUKER ANALYTIK GMBH/ZEIGER H
US 5229724	A US 6313631	B1	02-024919/02	(UNII) UNIV ILLINOIS FOUND/FIAT D; DOLINSEK J
US 5229724	A US 6380742	B1	03-677581/62	(VARI) VARIAN INC/ STRINGER J; BRONNIMANN C E
DE 4002160	A US 6452392	B1	00-560151/52	(BRUK-) BRUKER ANALYTIK GMBH/WETZEL N
US 5229724	A US 6452392	B1	00-560151/52	(BRUK-) BRUKER ANALYTIK GMBH/WETZEL N
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02sep04 14:13:14 User259284 Session D2885.10

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200456
(c) 2004 Thomson Derwent

Set	Items	Description
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S1	1	PN=US 4996482
? s pn=us 5982179		
S2	1	PN=US 5982179
? s s1:s2		
S3	2	S1:S2
? t s3/9/all		
Set	Items	Description
S1	1	PN=US 4996482
S2	1	PN=US 5982179
S3	2	S1:S2

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200456

(c) 2004 Thomson Derwent

Set Items Description

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? s pn=US 5768089

S1 1 PN=US 5768089

? t s1/9/1

1/9/1

DIALOG(R)File 350:Derwent WPIX

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011945164 **Image available**

WPI Acc No: 1998-362074/199831

XRAM Acc No: C98-111333

XRPX Acc No: N98-282726

Variable external capacitor for an NMR probe - has a housing containing a movable internal and fixed external member and defines a passageway for insertion of adjustment tools etc.

Patent Assignee: VARIAN ASSOC INC (VARI)

Inventor: FINNINGAN J P; FINNIGAN J P

Number of Countries: 025 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5768089	A	19980616	US 97781422	A	19970110	199831 B
EP 930511	A2	19990721	EP 98300267	A	19980115	199933 N

Priority Applications (No Type Date): US 97781422 A 19970110; EP 98300267 A 19980115

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 5768089	A	14	H01G-005/00		
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EP 930511	A2 E		G01R-033/36		
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Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): US 5768089 A

A variable external capacitor for an NMR probe comprises: a housing (12) defining a capacitor cavity which contains an internal capacitor member (18) moveable within the cavity to vary its distance from an external capacitor member (34); a current rail (22) connected between a ring (36) and the internal member; and a plunger (20) connected to the internal member and the rail to move the internal member in the cavity. The housing is preferably a PTFE cylinder with Ag deposited over one end to form the external member and around another end to form the ring.

ADVANTAGE - the variable capacitor provides a passageway (12) through which an adjustment tool may extend for adjusting components in the NMR probe, or through which other components may be inserted to increase probe functionality, without compromising the NMR circuit performance.

Dwg.2/7

Title Terms: VARIABLE; EXTERNAL; CAPACITOR; NMR; PROBE; HOUSING; CONTAIN; MOVE; INTERNAL; FIX; EXTERNAL; MEMBER; DEFINE; PASSAGE; INSERT; ADJUST; TOOL

Index Terms/Additional Words: NUCLEAR; MAGNETIC; RESONANCE

Derwent Class: A85; L03; V01

International Patent Class (Main): G01R-033/36; H01G-005/00

File Segment: CPI; EPI

Manual Codes (CPI/A-N): A04-E08; A12-E07B; A12-L04B; L03-B03

Manual Codes (EPI/S-X): V01-B02A

Polymer Indexing (PS):

<01>

001 018; R00975 G0022 D01 D12 D10 D51 D53 D59 D69 D82 F- 7A; H0000;

10621744

3/9/1
DIALOG(R)File 350:Derwent WPIX
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012850310 **Image available**
WPI Acc No: 2000-022142/200002
XRPX Acc No: N00-016392

Quarter wave circuit switch for nuclear magnetic resonance spectrometry
Patent Assignee: VARIAN INC (VARI)
Inventor: FINNIGAN J P; MUNSELL A W; RICE R G
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
US 5982179 A 19991109 US 97869268 A 19970604 200002 B

Priority Applications (No Type Date): US 97869268 A 19970604

Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
US 5982179 A 17 G01V-003/00

Abstract (Basic): **US 5982179 A**

NOVELTY - A spring washer (26) is sandwiched between a piston (22) and insert plug (28) provided in cavities (38,48), respectively. A pair of threaded contacts (18) provided in another cavity (14), is spaced apart by a spacer (20). A spring clip (30) mounted on a mounting screw (32) provided in cavity (50), is assembled between the piston and threaded contacts.

USE - For nuclear magnetic resonance spectrometry.

ADVANTAGE - Performs single and double tuning using single nuclear magnetic resonance probe, reliably. The use of piston and washers not only creates firm and precise electrical contact point between the capacitor stick and piston, but also prevents capacitor stick from becoming unthreaded, effectively.

DESCRIPTION OF DRAWING(S) - The figure shows the partial cross-sectional view of quarter wave circuit switch.

- Cavities (14,38,48,50)
- Threaded contacts (18)
- Spacer (20)
- Piston (22)
- Spring washer (26)
- Insert plug (28)
- Spring clip (30)
- Mounting screw (32)
- pp; 17 DwgNo 1/22

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9-2-2004

3/9/2

DIALOG(R)File 350:Derwent WPIX

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008576771 **Image available**

WPI Acc No: 1991-080804/199111

XRPX Acc No: N91-062402

Capacitor stick for NMR probe - has compensating coil between base
electrode and chip capacitor

Patent Assignee: JEOL CO LTD (NIDS)

Inventor: FUJITO T

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4996482	A	19910226	US 89410092	A	19890920	199111 B

Priority Applications (No Type Date): JP 88U124247 U 19880922

Abstract (Basic): US 4996482 A

The capacitor stick comprises a lower base electrode (12) fitted to the tip of stick electrode (11) and an upper base electrode (14) installed so that an insulating rod (13) is sandwiched between the two base electrodes. To the upper base electrode, one of the electrodes on chip capacitor (15) is soldered. The upper base electrode (14) and the lower base electrode (12) are connected by a compensating coil (18). When the capacitor stick is inserted into the circuit, the other electrode (16) on chip capacitor (15) comes into contact with the receiving electrode (17) in the circuit side and the lower base electrode (12) is grounded.

The inductance $L(s)$ of the compensating coil and the a capacitance C of the chip capacitor are set so that series resonance is caused at the decoupling frequency $f(1)$. By so setting, the impedance of the capacitor stick regarding the coupling frequency $f(1)$ is made zero by series resonance. Therefore, if the capacitor stick is used in a circuit point B is grounded with regard to the frequency $f(1)$ both by the trap circuit (10) and by the capacitor stick. Accordingly, it is possible to completely prevent the leakage of the decoupling high frequency signal of frequency $f(1)$ to the observation side input/output terminal (2).

ADVANTAGE - Can eliminate influence of resonance based on self-inductance of chip capacitor. (Dwg.No.1,5/6)

Title Terms: CAPACITOR; STICK; NMR; PROBE; COMPENSATE; COIL; BASE;
ELECTRODE; CHIP; CAPACITOR

Derwent Class: S01; S03

International Patent Class (Additional): G01R-033/20

File Segment: EPI

Manual Codes (EPI/S-X): S01-E; S01-H03; S01-H05; S03-E07

Already Read
TBF 9-2-2004

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5/9/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015788966

WPI Acc No: 2003-851169/200379

Related WPI Acc No: 2004-212636

XRAM Acc No: C03-239693

XRFX Acc No: N03-679722

Method for ranking affinity of each of a multiplicity of different molecules for target molecule capable of unfolding due to thermal change, comprises using a 5-(4''-dimethylaminophenyl)-2-(4'-phenyl)oxazole derivative dye

Patent Assignee: 3-DIMENSIONAL PHARM INC (THRE-N)

Inventor: PANTOLIANO M W; PETRELLA E C; SALEMME F R; SPRINGER B A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6569631	B1	20030527	US 98108085	P	19981112	200379 B
			US 99438357	A	19991112	

Priority Applications (No Type Date): US 98108085 P 19981112; US 99438357 A 19991112

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6569631	B1	82	G01N-033/53	Provisional application	US 98108085

Abstract (Basic): US 6569631 B1

NOVELTY - Method for ranking the affinity of each of a multiplicity of different molecules for a target molecule comprises using a 5-(4''-dimethylaminophenyl)-2-(4'-phenyl)oxazole derivative dye.

DETAILED DESCRIPTION - Method for ranking the affinity of each of a multiplicity of different molecules for a target molecule which is capable of unfolding due to a thermal change comprises:

(a) **contacting** the target molecule with one molecule of a multiplicity of different molecules, in the presence of a 5-(4''-dimethylaminophenyl)-2-(4'-phenyl)oxazole derivative dye, in each of a multiplicity of containers;

(b) simultaneously heating the multiplicity of containers;

(c) measuring the fluorescence in each container;

(d) generating thermal unfolding information for the target molecule as a function of temperature for each container;

(e) comparing the thermal unfolding information obtained for each container to the thermal unfolding information obtained for each of the other containers, and the thermal unfolding information obtained for the target molecule in the absence of any of the molecules in the multiplicity of different molecules; and

(f) ranking the affinities of each molecule according to the difference in the thermal unfolding information between the target molecule in each container and the target molecule in the absence of any of the molecules in the multiplicity of different molecules.

USE - For ranking the affinity of each of a multiplicity of different molecules for a target molecule, e.g. protein (claimed), which is capable of unfolding due to a thermal change.

ADVANTAGE - The invention provides a rapid, high-throughput, fluorescence screening procedure in which fluorescence readings are taken at wavelengths longer than fluorescence molecules such as 8-anilino-naphthalene-8-sulfonate. The use of 5-(4''-dimethylaminophenyl)-2-(4'-phenyl)oxazole derivative dye in the invention affords increased assay sensitivity and increased assay throughput, because these dyes have long emission wavelengths, high extinction coefficients, high quantum yields, and large Stokes shifts.

pp; 82 DwgNo 0/45

Technology Focus:

TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Component: The 5-(4''-dimethylaminophenyl)-2-(4'-phenyl)oxazole derivative dye is

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9/2/2004

5-(4''-dimethylaminophenyl)-2-(4'-phenyl)oxazole butylsulfonamide, or their salt or ester;
5-(4''-dimethylaminophenyl)-2-(4'-phenyl)oxazole-(2-aminoethyl)sulfonamide, or their salt or ester;
5-(4''-dimethylaminophenyl)-2-(4'-phenyl)oxazole-3-sulfonamidophenylboronic acid, or their salt or ester;
5-(4''-dimethylaminophenyl)-2-(4'-phenyl)oxazole sulfonic acid, or their salt or ester, 5-(4''-dimethylaminophenyl)-2-(4'-phenyl)oxazole sulfonyl hydrazine,
5-(4''-dimethylaminophenyl)-2-(4'-phenyl)oxazole-(2-bromoacetamidoethyl)sulfonamide, or their salt or ester;
5-(4''-dimethylaminophenyl)-2-(4'-phenyl)oxazole-2-(3-(2-pyridyldithio) propionamidoethyl) sulfonamide, or their salt or ester;
5-(4''-dimethylaminophenyl)-2-(4'-phenyl)oxazole sulfonyl chloride, or their salt or ester;
5-(4''-dimethylaminophenyl)-2-(4'-phenyl)oxazole-3-sulfonaminopropionic acid, or their salt or ester,
5-(4''-dimethylaminophenyl)-2-(4'-phenyl)oxazole carboxylic acid, or their salt or ester; or
5-(4''-dimethylaminophenyl)-2-(4'-phenyl)oxazole sulfonate, or their salt or ester. It is preferably
5-(4''-dimethylaminophenyl)-2-(4'-phenyl)oxazole sulfonate, sodium salt.

Preferred Condition: The thermal unfolding information is the thermal unfolding Tm.

The fluorescence in each container is measured simultaneously.

The heating, the measuring, the generating, the comparing, the ranking, and the **contacting** are performed automatically.

BIOLOGY - Preferred Component: The multiplicity of different molecules comprises a combinatorial library

Title Terms: METHOD; RANK; AFFINITY; MULTIPLICITY; MOLECULAR; TARGET; MOLECULAR; CAPABLE; UNFOLD; THERMAL; CHANGE; COMPRISE; PHENYL; OXAZOLE; DERIVATIVE; DYE

Derwent Class: B04; E13; S03

International Patent Class (Main): G01N-033/53

International Patent Class (Additional): G01N-021/76

File Segment: CPI; EPI

Manual Codes (CPI/A-N): B04-N04; B07-E01; B11-C01A; B11-C07B3; B11-C10A; B12-K04E; E07-E01; E11-Q03

Manual Codes (EPI/S-X): S03-E04D; S03-E04E; S03-E09E; S03-E14H; S03-E15

Chemical Fragment Codes (M2):

01 M417 M423 M750 M781 M905 N102 N141 P831 P832 Q505 RA00H3-K RA00H3-A RA00H3-D

Chemical Fragment Codes (M3):

01 M417 M423 M750 M781 M905 N102 N141 P831 P832 Q505 RA00H3-K RA00H3-A RA00H3-D

Chemical Fragment Codes (M6):

12 M905 P831 P832 R511 R514 R526 R625 R633 R637

Specific Compound Numbers: RA00H3-K; RA00H3-A; RA00H3-D; RABYLV-K; RABYLV-A; RABYLV-D; RABYLW-K; RABYLW-A; RABYLW-D; RABYLV-K; RABYLV-A; RABYLV-D; RABYLY-K; RABYLY-A; RABYLY-D; RABYM1-K; RABYM1-A; RABYM1-D; RAC1T3-K; RAC1T3-A; RAC1T3-D; RAC1T4-K; RAC1T4-A; RAC1T4-D; RAC1T5-K; RAC1T5-A; RAC1T5-D; RAC1T6-K; RAC1T6-A; RAC1T6-D; RAC1T9-K; RAC1T9-A

Key Word Indexing Terms:

01 790519-0-0-0-CL, DET 790520-0-0-0-CL, DET 790521-0-0-0-CL, DET
790522-0-0-0-CL, DET 790525-0-0-0-CL, DET 794818-0-0-0-CL, DET
794819-0-0-0-CL, DET 794820-0-0-0-CL, DET 794821-0-0-0-CL, DET
794824-0-0-0-CL, DET 184616-0-0-0-CL, DET

10/629, 744

6/9/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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008897515 **Image available**
WPI Acc No: 1992-024784/199204
XRPX Acc No: N92-018938

Thermally-releasable-sample collector e.g. for ims analysis - has
electrical heating cartridge in **probe**, with air drawn into and
along adsorbent tube from front, open end portion

Patent Assignee: ELIAS L (ELIA-I); NAT RES COUNCIL CANADA (CANA)

Inventor: ELIAS L; LAWRENCE A H; LEMON F W

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2015971	A	19911102	CA 2015971	A	19900502	199204 B
US 5181427	A	19930126	US 91689483	A	19910423	199307

Priority Applications (No Type Date): CA 2015971 A 19900502

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5181427	A	5	G01N-001/24	

Abstract (Basic): CA 2015971 A

An adsorber tube locating collar secured and sealed to a rear end of a tubular, barrel portion, has a front, open, sample adsorbent end portion. A member releasably secures the adsorber tube within the tubular, barrel portion with a rear end portion of the tube located in the collar. The front, open, sample adsorbent end portion of the sample passage of the **probe** and terminates adjacent the blunt end of the **probe**.

Air is drawn into and along the absorbent tube from the front, open, sample adsorbent end portion. The **probe** contains an electrical heating cartridge, and the tube is releaseably secured within the barrel portion using a spring-loaded plunger.

ADVANTAGE - Provides reliable thermal release of adsorbed trace sample. (12pp Dwg.No.1,2/2)

Abstract (Equivalent): US 5181427 A

The device comprises a pistol shaped casing, a blunt ended **probe** in the front end of the casing barrel, an adsorber tube locating collar in a rear end of the casing barrel, and an adsorber tube **slidably** located in the **collar** and having an open ended, sample adsorber end portion in a central portion of a gas passage extending through the **probe**.

The adsorber tube has a closed rear end and gas ports which are located by a spring loaded plunger in a first position for drawing air through the **probe** into the adsorber tube, and a second position where carrier gas passes along the adsorber tube, to entrain thermally released sample, while the sample adsorber end portion is protruding from the **probe** into the heated entry of an analyser.

ADVANTAGE - Reduced losses in vapour samples.

Dwg.1/2

Title Terms: THERMAL; RELEASE; SAMPLE; COLLECT; ANALYSE; ELECTRIC; HEAT;
CARTRIDGE; **PROBE**; AIR; DRAW; ADSORB; TUBE; FRONT; OPEN; END;
PORTION

Index Terms/Additional Words: ION; MOBILE; SPECTROSCOPE

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6/9/77 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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004585915

WPI Acc No: 1986-089259/198614

XRPX Acc No: N86-065289

Toilet cleaning implement with removable head - has head attached to handle by lip-and-groove connection

Patent Assignee: SANI-FRESH INT INC (SANI-N); SCOTT PAPER CO (SCOP)

Inventor: BOKMILLER D J

Number of Countries: 011 Number of Patents: 009

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 176248	A	19860402				198614 B
AU 8546442	A	19860327				198620
ZA 8506566	A	19860228				198623
US 4642836	A	19870217	US 84652863	A	19840920	198709
CA 1268012	A	19900424				199022
EP 176248	B	19900808				199032
DE 3579085	G	19900913				199038
CA 1275766	C	19901106				199050
CA 1275767	C	19901106				199050

Priority Applications (No Type Date): US 84652863 A 19840920; US 84592945 A 19840323

Cited Patents: A3...8635; CH 168412; CH 252109; No-SR.Pub; US 2304961; US 4135272

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 176248	A	E 18		

Designated States (Regional): AT BE DE FR GB IT NL

EP 176248 B

Designated States (Regional): AT BE DE FR GB IT NL

Abstract (Basic): EP 176248 B

The implement (10) includes a head having a rearward end provided internally with a lip and a passage which receives a handle (12). The lip mates with a groove in the handle, to removably attach the head to the handle. A flexible strap attaches a first cleaning element releasably to the head.

A collar (32) is provided about the head and has a groove to mate with an external shoulder on the head rearward end. The collar has a shoulder for abutting an annular lip on the handle. A second cleaning element is also attached to the head.

ADVANTAGE - When changing the head, contact with the soiled cleaning element is avoided. (18pp Dwg.No.3/5)

Abstract (Equivalent): EP 176248 B

A cleaning wand comprising: a handle (12); a head (42) having a passage (48) therein for fitting receipt of one end (16) of the handle; means (32, 44) for removable attaching said head to said handle a first cleaning element (74); means (62, 78) for removably attaching said first cleaning element to said head; and a second cleaning element (76) attached to said head (42), characterised in that the means for removably attaching the head (42) to the handle (12) comprises a lip (51) projecting radially inwardly from an internal surface of a rearward end of the passage (48) through the head, a groove (24) in said one end of said handle for resilient mating with said lip; and a collar (32) axially slidable along an external surface of said rearward end of said head, said collar (32) having a groove (36) adapted for resilient mating with a (53) on the external surface at the rearward end of said head, said collar further comprising a shoulder (38) for abutting an annular lip (26) on said handle. (9pp)

Abstract (Equivalent): US 4642836 A

The cleaning head includes a hollow sleeve to receive the cleaning

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wand handle and a base to receive the cleaning element retainer. The sleeve receives an end of the handle and is secured via detents that cooperate with a radial groove in the handle. The head is locked in position by a **collar** or ferrule that **slides** axially on the outer dia. of the sleeve and engages a raised radial rib on the end of the sleeve, providing a detented lock by cooperating with an internal groove or depression on the inner dia. of the **collar**. **Sliding** the **collar** toward the base readily disengages the head from the handle.

A swab, fibre bundle, or other cleaning element is secured to a cleaning element retainer by a flexible strap. The retainer permits securement of the strap and is further provided with barbs. The barbs cooperate with a pair of slots in the head to permit a detachable snap fit between the swab retainer and head. An alternate or second cleaning element is also attached to the head.

ADVANTAGE - The swab and/or head may be readily disposed after use.

(12pp)2

Title Terms: TOILET; CLEAN; IMPLEMENT; REMOVE; HEAD; HEAD; ATTACH; HANDLE; LIP; GROOVE; CONNECT

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6/9/9 (Item 9 from file: 350)
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002096171

WPI Acc No: 1979-B6060B/197908

Position of traction cable checking system - uses **probe** signalling
when cable derailment on balancing pulley assembly occurs

Patent Assignee: STGM (STGM-N)

Inventor: CHAVE J G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2391450	A	19790119				197908 B

Priority Applications (No Type Date): FR 7715441 A 19770518

Abstract (Basic): FR 2391450 A

The position of a cable used in a lifting or similar machine is checked w.r.t. a guide pulley to ensure that the cable is correctly positioned. A **probe** operated by pulley movement signals derailment of cable. A cable (1) is guided by pulleys (102) and guide plates (106) fixed to pulley mounting (103) prevent derailment.

A central hole (104) enables the pulleys to act as balancing assembly. One pulley (102) is mounted on cylindrical support with radial **collar** (5) to enable **sliding** w.r.t. the other pulley (102'). A shaft (7) contacts a blade spring (9) operating against pins (16) to keep pulley in contact with cable. A detector (20) signals when no load is applied to pulley thus signalling a derailment.

Title Terms: POSITION; TRACTION; CABLE; CHECK; SYSTEM; **PROBE**; SIGNAL;
CABLE; DERAILED; BALANCE; PULLEY; ASSEMBLE; OCCUR

Derwent Class: Q21; Q38; S02

International Patent Class (Additional): B61B-012/00; B66C-013/00;

G01B-007/14

File Segment: EPI; EngPI

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10/624,744

6/9/11 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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001228420

WPI Acc No: 1975-B2196W/197505

Probe for printed circuit boards - mounted on subsidiary board in
desired spatial arrangement for testing

Patent Assignee: CIT-ALCATEL GMBH (CITC)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2224757	A	19741206				197505 B

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Priority Applications (No Type Date): FR 7312001 A 19730403

Abstract (Basic): FR 2224757 A

Test or control **probes** for mounting on one board or panel for
application to another printed circuit board can be made from sewing
needles. The **probes slide** in a **collar** which has
external threads by which it is mounted in the correct position on the
test board. The end of the threads away from the **probe** point is
used to anchor a spring which is fixed at its other end to the
probe, thus providing positive contact pressure on application.
The electrical connection is made to the eye of the needle. A second
version has an insulated **collar** and a **sliding** upper member
that limits the amount of **probe** exposed in the free state, when
the test board is not applied to a second board.

10/624,744 9-2-2004

7/9/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015715342 **Image available**
WPI Acc No: 2003-777542/200373
Related WPI Acc No: 2003-744514
XRAM Acc No: C03-213890
XRPX Acc No: N03-623075

Treatment and preventing system for complications associated with
avascular necrosis of human or non-human patient, involves inserting
composition and biologically compatible support into created channel(s)
Patent Assignee: FETTO J F (FETT-I); LEALI A (LEAL-I)
Inventor: FETTO J F; LEALI A
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030135214	A1	20030717	US 200250337	A	20020115	200373 B

Priority Applications (No Type Date): US 200250337 A 20020115
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
US 20030135214 A1 15 A61B-017/56

Abstract (Basic): US 20030135214 A1

NOVELTY - A treatment and preventing system for the complications associated with avascular necrosis in a musculoskeletal system of a human or non-human patient.

DETAILED DESCRIPTION - A treatment and/or preventing system for the complications associated with avascular necrosis in a musculoskeletal system of a human or non-human patient, comprises:

- (1) identifying a biological site in the musculoskeletal system of the patient in need of the treatment;
- (2) creating channel(s) from an exterior of the biological site in the musculoskeletal system into or distal to the site in a manner that facilitates access to the site; and
- (3) inserting into the channel a combination comprising at least:
 - (a) a composition; and
 - (b) a biologically compatible support.

The composition comprises an osteoinductive element, and/or an osteoconductive element. The compatible support fills the channel and provides support to the biological site in the musculoskeletal system of the patient pending formation of new bone and vasculature at the site.

INDEPENDENT CLAIMS are also included for:

- (1) a kit for treating avascular necrosis of a human or non-human patient, comprising sterile or sterilizable drill bit(s) for creating the channel; composition(s) containing the osteoinductive element and/or osteoconductive element; biologically compatible support(s); and device(s) adapted for insertion of the biologically compatible support into the channel; and
- (2) a screw made from bone, comprising a cylinder of bone, with or without taper, of a length of 25-35 mm and a width of 5-10 mm.

ACTIVITY - None given.

MECHANISM OF ACTION - None given.

USE - The system is used for treating and/or preventing the complications associated with avascular necrosis in a musculoskeletal system of a human or non-human patient.

ADVANTAGE - The inventive system prevents and/or reduces the complications associated with osteonecrosis.

DESCRIPTION OF DRAWING(S) - The figure shows a picture of a cortical bone screw.

pp; 15 DwgNo 6/6

Technology Focus:

TECHNOLOGY FOCUS - INSTRUMENTATION AND TESTING - Preferred System:
The site exhibiting avascular necrosis in the musculoskeletal system is

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located within the head of the femur, in the femoral or tibial condyles of epicondyles, the malleolus of the tibia or fibula, the head or tubercles of the humerus, or either terminus of the radius or ulna, talus, carpal navicular. The bone is partially or completely demineralized.

Preferred Component: The biologically compatible support comprises a biologically compatible synthetic material, a biologically synthetic metal, a cortical shaft of bone, a cancellous shaft of bone, and a shaft of bone that comprises both cortical bone and cancellous bone. It is in the form of a plug that fills the channel.

The plug comprises threading over a portion of its circumference such that the plug maybe torqued into place within the channel; and an engagement mechanism for engagement with a torque delivery mechanism.

The drill bit comprises step(s) in its diameter, including in its cutting edge and optionally including an adjustable collar that may be slid axially along the drill bit.

The kit further includes a tap for inscribing threads within the channel; guidewire(s); a delivery device for inserting the composition into the channel; and an instrument tray.

The drill bit, the tap and the insertion device are cannulated, respectively. The delivery device comprises a tamp and/or a syringe.

The cortical bone support is at least partially demineralized.

The screw comprises a thread inscribed in the circumference of the screw over a portion of the circumference. The screw is cannulated. It has been soaked or infused with growth factors, BMP, and/or bone progenitor cells.

Preferred Property: The drill bit and the tap have a diameter of 5-10 mm. The cortical bone support is of a length of 25-35 mm.

PHARMACEUTICALS - Preferred Components: The composition further comprises angiogenic element(s); and a biologically compatible carrier matrix.

The osteoinductive element comprises demineralized bone matrix (DBM), bone morphogenetic protein (BMP), cartilage derived morphogenetic protein (CDMP), bone progenitor cells, and/or a growth factor. The osteoconductive element comprises cortical bone chips, cancellous bone chips, chips having both a cortical and a cancellous nature, mixtures of cortical bone and cancellous bone chips, bioactive ceramic, a calcium salt composition, and/or a phosphate salt composition.

Preferred Material: The carrier matrix comprises gelatin, hyaluronic acid, glycosaminoglycan, glycerol, alginate, methacrylate, and/or methyl methacrylate.

POLYMERS - Preferred Material: The carrier matrix comprises gelatin, hyaluronic acid, glycosaminoglycan, glycerol, alginate, methacrylate, and/or methyl methacrylate

Extension Abstract:

EXAMPLE - A 47-year old while male with history of diabetes mellitus, hypercholesterolemia and avascular necrosis of his left hip for which he had a total hip replacement two years earlier, presented with right groin pain and painful range of motion. A **magnetic resonance** imaging study showed evidence of osteonecrosis of the right hip in pre-collapse stage (Ficat II) with a compromised area of 25% of the femoral head. The patient underwent a biological and structural augmentation procedure. The surgery was well tolerated and there were no intraoperative complications. Postoperative films showed adequate placement of both bone screws. The patient was discharged from the hospital the following day and was maintained on protected weight bearing for 6 weeks. One month after surgery, the patient was clinically asymptomatic exhibiting painless full range of motion of the hip. A follow-up x-ray study showed both screws in place with excellent bone response to the demineralized bone matrix material and cortico-cancellous chips allografts.

Title Terms: TREAT; PREVENT; SYSTEM; COMPLICATED; ASSOCIATE; NECROSIS; HUMAN; NON; HUMAN; PATIENT; INSERT; COMPOSITION; BIOLOGICAL; COMPATIBLE; SUPPORT; CHANNEL

Derwent Class: A96; B07; D22; P31

International Patent Class (Main): A61B-017/56